

Figure 1

VSQGSILNsgDyyxwswrOHPGKGLDCIGYXYSSTYYNPSLKSRYTISVDISKNOFLKLTSYTAADTAVVYVCARSTVNPNGWDEPWGGGTLVTSS (SEQ ID NO:3)
CDR1 CDR2 CDR3

Figure 2

GTCTCTGGTG GCTCCATCAA CAGTGGTGAT TACTACTGGA GCTGATCCG CCAGCACCCA GGAAGGGCC TGGACTGCAT TGGTACATC TATTACAGTG GGAGCACCTA
CTACAACCCG TCCCTCAGA GTCCAGTTAC CATATCAGTA GACACGCTA AGATCAGTT CTTCCTGAAG CTGACCTCTG TGACTGCCGC GGACACGGCC GTGTATTACT
GTCCGAGATC TACGGTGGA AATCCGGGGT GGTTCGACCC CTGGGGCCAR GGAACCTGG TCACCGTCTC CTCA (SEQ ID NO:4) 3

Figure 3

TTTCQASODINNNYLNWFOOKPKGKAPKVLHHDASNLETGSPSRFSGSGTDETFETISGLPEDIATYYCQOYESLPLTFGGGTVKERTVAAPSVFIHPPSDEQ (SEQ ID NO:5) 24
CDR1 CDR2 CDR3

Figure 4

ACCATCACTT GCCAGCGGAG TCAGAGACATT AACAACTATT TAAATTGGTT TCAGCAGAAA CCAGGAAAG CCCCT AAGTTCCTGA TCCAGCATGC ATCCAATTG
GAAACAGGGG GCCCATCAAG GTTCAGTGGA AGTGATCTG GGACA GATTTACTT TCACCATCAG CGGCTGCAAG CCTGAAGACA TTGCACACATA TTAATTGCAA
CAGTATGAAA GTCTC CCACTCACTT TCGGCGGAGG GACCAAGTG GAGATCAAA (SEQ ID NO:6) 7

09107503 : 110509

Figure 5

VSQGSINSGDYYSWVROHPGKGLIEWIGSIYYSGNFYNESLKSRYTSLDTSKNOESLKSSTVAADTAVCYCARNVTTGAEDIWQGTMTVSS (SEQ ID NO: 7) 25
CDR1 CDR2 CDR3

Figure 6

GTCTCTGTG GCTCCATCA CAGTGGTGT TACTACTGGA GCTGGATCCG CCAGACCCCA GGAAGGGCC TGGAGTGAT TGGTCCATC TATTACAGTG GGAACACCTT
CTAACACCCG TCCCTCAGA GTCGAGTTAC CATATCACTA GACACGCTA AGAACCGATT CTCCCTGAAG CTGAGTTCTG TGACTGCCCG GACACCGGCC GTGTGTTACT
GTGCGAGAAA TATAGTACT ACGGGTGCTT TTGATATCTG GGGCCAAAGG ACAATGGTCA CCGTCTCTTCA (SEQ ID NO: 8) 25

Figure 7

TTTCQASODITLYLNWYOOKPGKAPKLLINDASSLETGVPLRFSSGSGSTDEFTITSSLOPEIDIAITYYCCQOYDHLPLTFGGGTKVAIKRTVAAPSVFIHPPSDEQ (SEQ ID NO: 9) 26
CDR1 CDR2 CDR3

Figure 8

ACCATCACTT GTCAGGCGAG TCAGGACATT ACCATTATT TAAATTGGTA TCAACAGAAA CCAGGGAAG CCCCCT AAGCTCCTGA TCAACGAGCG ATCCAGTTTG
GAAACAGGGG TCCCATTAAG GTTCAGTGA AGTGATCTTG GGACA GATTITACTT TCACCATCAG CAGCCTGCAG CCTGAAGATTA TTGCACACATA TTA CTGTCAA
CAGTATGATC ATCTC CCGCTCACTT TCGGCGGCGG GACCAAGGTG GCGATCAAA (SEQ ID NO: 10) 26

Figure 9

VSGGSISSG**D**xyxw**L**wirohpkglEWIGYLYXSG**N**tyynpslksrv**S**MS**I**DTSE**E**NOFSLKLSVTADTAVVYYCAR**K**PLYTGEDYWGQGTLYTVSS (SEQ ID NO:11) **27**

CDR1

CDR2

CDR3

Figure 10

GTCTCTGGTG GCTCCATCAG CAGTGTGAT TACTACTGA CCTGGATCCG CCAGCACCCA GGAAGGGCC TGGAGTGGAT TGGGTACATC TATTACAGTG GGAACACCTA
CTACAAACCCG TCCCTCAAGA GTGAGTTTC CATGTCAATA GACACGCTCG AGAACCAAGT CTCCCTGAAG CTGAGCTCTG TGAAGTCCCG GGACACGGCC GTGTATTACT
GTGCGAGAAA ACCAGTGAAGT GGGGGGGAGG ACTACTGGGG CCAGGGAACC CTGGTCACCG TCTCTCA (SEQ ID NO:12) **28**

Figure 11

TTTQASODISNYLWYOOKPKKAPKLLYDASNLHTGVPSRFSGSGSDTDTTISLSLOPEDIVGyyVooY**E**SLPCGFQQT**K**LEIKRTVAAPSVFI**P**PSDEQ (SEQ ID NO:13) **28**

CDR1

CDR2

CDR3

Figure 12

ACCATCATT GCCAGGGCAG TCAGACATT AGTAACATT TAAATTGGTA TCAGCAGAAA CCAGGGAAG CCTT AAGTCTCTGA TCTACGATGC TTCCAATTGG GAAACAGGGG
TCCCATCAAG GTTCAGTGGA GTGATCTG GGACA GATTTTACTT TCACCATCAG CAGCTGCAG CTGAAGATG TTGGAACATA TGTCTGTCAA CAGTATGAGA GTCTC
CCGTGCGGT TTGGCCAGGG GACCAAACTG GAGATCAAA (SEQ ID NO:14) **29**

09197503 : 440599

Figure 13

VS~~GS~~IN~~SG~~DFYWSWROHEKLEMIGIXYSGSTYNPSLKSRVTMSIDPSKNOPSLKISVTADTAVVYCATSLYYGGMDVWGQGTTVTSS (SEQ ID NO:15)

CDR1

CDR2

CDR3

Figure 14

GTCTCTGCTG CTTCATCAA CAGTGGTAT TTCTACTGGA GCTGATCCG CCAACACCA GGAAGGGCC TGGAGTGGAT TGGTACATC TATTACAGTG CGAGCACCTA
CTACAACCCG TCCCTCAAGA GTCGAGTTAC CATGTCAATA GACCCGCTA AGAACAGTT CTCCCTGAAA CTGATCTCTG TGA CTGCCCC GGACACGGCC GTTATTACT
GTGGACNTC CCTTACTAT GCGGGGGTA TGGACGCTCTG GGGCCAAGG ACCACGGTCA CCGTCTCTC A (SEQ ID NO:16)

Figure 15

TTTCQASODISNNLNWYOOKRGNAPKLLYDASNLETGVPSRFSGSGTDFITFISNLOPEDATYYCQHVDHLPWTFGQGTKEVKRTVAAPSVFIPPSDEQ (SEQ ID NO:17)

CDR1

CDR2

CDR3

Figure 16

ACCATCACTT GCCAGGCGAG TCAGACATT AACACTATT TGAATTGTA TCAGCAGAG CCNGGGAACG CCCCT AACCTCTGA TCTACGATGC ATCCAATTG
GAAACAGGGG TCCCATCAAG GTTCAGTGA AGTGATCTG GGACA GATTTTACTT TCACCATCAA CAGCTGCAG CCTGAAGATA TTGCGACATA TTATTGTCAA
CACTATGATC ATCTC CCGTGGACGT TCGCCCAAGG GACCAAGTG GAANTCAA (SEQ ID NO:18)

Figure 17

VSQGSINNGDYYWSVIRHPGKGLFWGHHVYSGSTYYLPSLSKRTLSVDTSKNQPSLKLNSVTAADTAVVYCCARGIVTTYEDYMGQGTIVTVSS (SEQ ID NO:19) 37

CDR1 CDR2 CDR3

Figure 18

GTCTCTGCTG GCTCCATCAA CAATGCTGAT TACTACTGGA GCTGGATCCG CCAGCACCCCA GGGAAAGGCC TGGAGTGGAT TGGGCACATC TATTACAGTG GGAGCACCCTA CTACATCCCG TCCCTCAAGA GTCGAAGTAC CATATCAGTA GACACGTCTA AGAACAGGT CTCCTGAAG CTGAAGTCTG TGAATGCCGC GGACACGGCC GTGTATTACT GTGCGAGAGG GACAGTAACT ACGTACTACT TTGACTACTG GGGCCAGGGA ACCCTGCTCA CCGTCTCTC A (SEQ ID NO:20) 11

Figure 19

TTTCRASQSSSYLNWYXOOKPGKAPKLLIYAASLSQSGVPSRSGSGGTDFLTIISSLOPEDFATYYCGQGGYRTPECSFGQGTKLEIKRTVAAPSVFIFFPSDEQ (SEQ ID NO: 21) 32

CDR1 CDR2 CDR3

Figure 20

ACCATCACTT GCCGGGCAAG TCAGAGCATT AGCAGCTATT TAAATTGGTA TCAGCAGAAA CCAGGGAAG CCCCCT AAGCTCCTGA TCTATGCTGC ATCCAGTTTG CAAAGTGGGG TCCCATCAAG GTTCAGTGGC AGTGGATCTG GGACA GATTTCACATC TCACCATCAG CAGTCTGCAA CCTGAAGATT TTGCAACTTA CTACTGTCAA CAGGTTACA GAACC CCTCCGGAGT GCAGTTTGG CCAGGGGACC AAGCTGGAGA TCAAA (SEQ ID NO:22) 12

Figure 21

VSGSVSSG DYYWSYRPPGKLEWIG HLYXSG NINYNESLKSRYTISLDTISKNOESLKISSVTAAADTAVYYC ARDEL TGSEEDYWGQGTLVTVSS (SEQ ID NO:24) 33

CDR1 CDR2 CDR3

Figure 22

GTCTCTGCTG GCTCCGTCAG CAGTGGTGAT TACTACTGGA GCTGGATCCG GCAGCCCCA GGAAGGAC TGGAGTGGAT TGGACATCTC TATTACAGTG GGAACACCAA
CTACAACCCC TCCCTCAAGA GTCGAGTCAC CATATCATTA GACACGTCCA AGAACAGTT CTCCTGAAG CTGAGCTCTG TGACCGCTGC GGACACGGCC GTGTATTACT
GTGCGAGAGA TTTTGTGACT GGTCTCTTCT TTGACTACTG GGGCCAGGGA ACCCTGGTCA CCGTCTCTC A (SEQ ID NO:25) 2

Figure 23

TTTCQASQDISNYL NWYOOKPGKAPKLL NDAS DLETGVPSRISGSGSDTFETISNL OPEDIATYYCQYDSI PLFGGGTKVEIRRTVAAPSVFI PPSD EQ (SEQ ID NO:26) 2

CDR1 CDR2 CDR3

Figure 24

ACCATCACTT GCCAGGCGAG TCAGGACATA AGCAACTATT TAAATTGTA TCAGCAGAAA CCAGGAAAG CCGCT AAGCTCTGA TCAACGATGC ATCCGATTTG
GAAACAGGGG TCCCATCAAG GATCAGTGA AGTGATCTG GGACA GATTTACTT TCACCATCAG CAACCTGCAAG CCTGAAGATA TTGCAACATA TTA CTGTCAA
CAATATGATA GTCTC CCGCTCACTT TCGCGGAGG GACCAAGGTG GAGATCAGA (SEQ ID NO:27) 2

Figure 25

VSQGSV **X**SGD YXXWSWIRQPPGKGLBWIGYIXSGSTNNYNLSKRYVTISVDTSKNQSLKLSSTVAADTAVVYVCARDSLGATINXWGQGLVTIVSS (SEQ ID NO:28) **35**
CDR1 CDR2 CDR3

Figure 26

GTCTCTGGTG GCTCCGCTCTA CAGTGGTGAT TACTACTGGA GCTGGATCCG GCAGCCCCCG GGAAGGGAC TGGAGTGGAT TGGGTATATC TATTACAGTG GGAGCACCAA
TTACAATCCC TCCCTCAAGA GTCGAGTAC CATATCAGTA GACACGTCCA AGAACCAATT CTCCCTGAAG CTGAGCTCTG TGACCGCTGC GGACACGGCC GTGTATTACT
GTCCGAGAGA CTCCATACTG GGAGCTACCA ACTACTGGGG CCAGGGAACC CTGGTCACCG TCTCTCTCA (SEQ ID NO:29) **15**

Figure 27

TTTCASO **X**ISNYL **X**WYQOKPGKAPK **X**LISDASNL ETGVPSRFSGSGSGT **X**XITITISLQPEDIAITYH **X**OYXS **X**LPLTFGGGTVKVEIKRTVAAPSVFIPPPSDEQ (SEQ ID NO:30) **25**
CDR1 CDR2 CDR3

Figure 28

ACCATCACTT GCCAAGCGAG TCNGACAATT AATACTAATT TANATTGGTN TCAGCAGAAA CCAGGGAAG CCCCT AASTCTCTGA TCTCCGATGC ATCCAATTTA
GAAACAGGGG TCCCATCGAG GTTCAGTGGA AGTGATCTTG GGACA GANTNTACTT TCACCATAG CAGCCTGCAG CCGAAGATA TTGCNACATA TCACTGTCNA
CAGTATNATA GTCTC CCGCTCACTT TCGGCGGAGG GACCAAGGTA GAGATCAAA (SEQ ID NO:31) **19**

Figure 29

VSGGSVSSG Dyyw/TwiroS SpkGLEWIG HuyxsgN nnynpsLksrL ltislDtskT ofslKLssvTAADTA lyycV RDRVtGAEDJWGQGT MTVtSS (SEQ ID NO:32)

CDR1

CDR2

CDR3

37

Figure 30

GTCTCTGGTGGCTCCGTCAGCAGTGTGAT TACTACTGGA CCTGGATCCG GCAGTCCCA GGAAGGGAC TGGAGTGGAT TGGACACATC TATTACAGTG GGAACACCAA
TTATAACCCC TCCCTCAGA GTGACTCAG CATATCAATT GACACGTCCA AGACTCAGTT CTCCCTGAAG CTGAGTCTGT TGACCGCTGC GGACACGGCC ATTATTTACT
GTGTCGAGA TCGAGTGA CTGGCTTTTG ATATCTGGGG CCAAGGAGA ATGCTACCCG TCTCTTCA (SEQ ID NO:33)

17

Figure 31

TTTCQASODISN YLNWYOO KPKGAPKLL YDASNLE TGVPSR SSGSGT IDETIT SSLOPE DIAITYFCO HEH HLPLA FGG GTKVEIKR TVAA PSVHF PPSDEQ (SEQ ID NO:34)

CDR1

CDR2

CDR3

45

Figure 32

ACCATCACTT GCCAGGGCAG TCAGGACATC AGCACTATT TAAATTGGTA TCAGCAGAAA CCAAGGAAAG CCCCT AAACCTCCTGA TCTACGATGC ATCCAATTTG
GAAACAGGGG TCCCATCAAG GTTCAGTGA AGTGATCTG GGACA GATTTACTT TCACCATCAG CAGCTGCAG CCTGAAGATA TTGCAACATA TTCTGTGCAA CACTTGATC
ATCTC CCGCTCGCTT TCGGCGGAGG GACCAAGGTG GAGATCAA (SEQ ID NO:35)

28

09197503 1110509

Figure 33

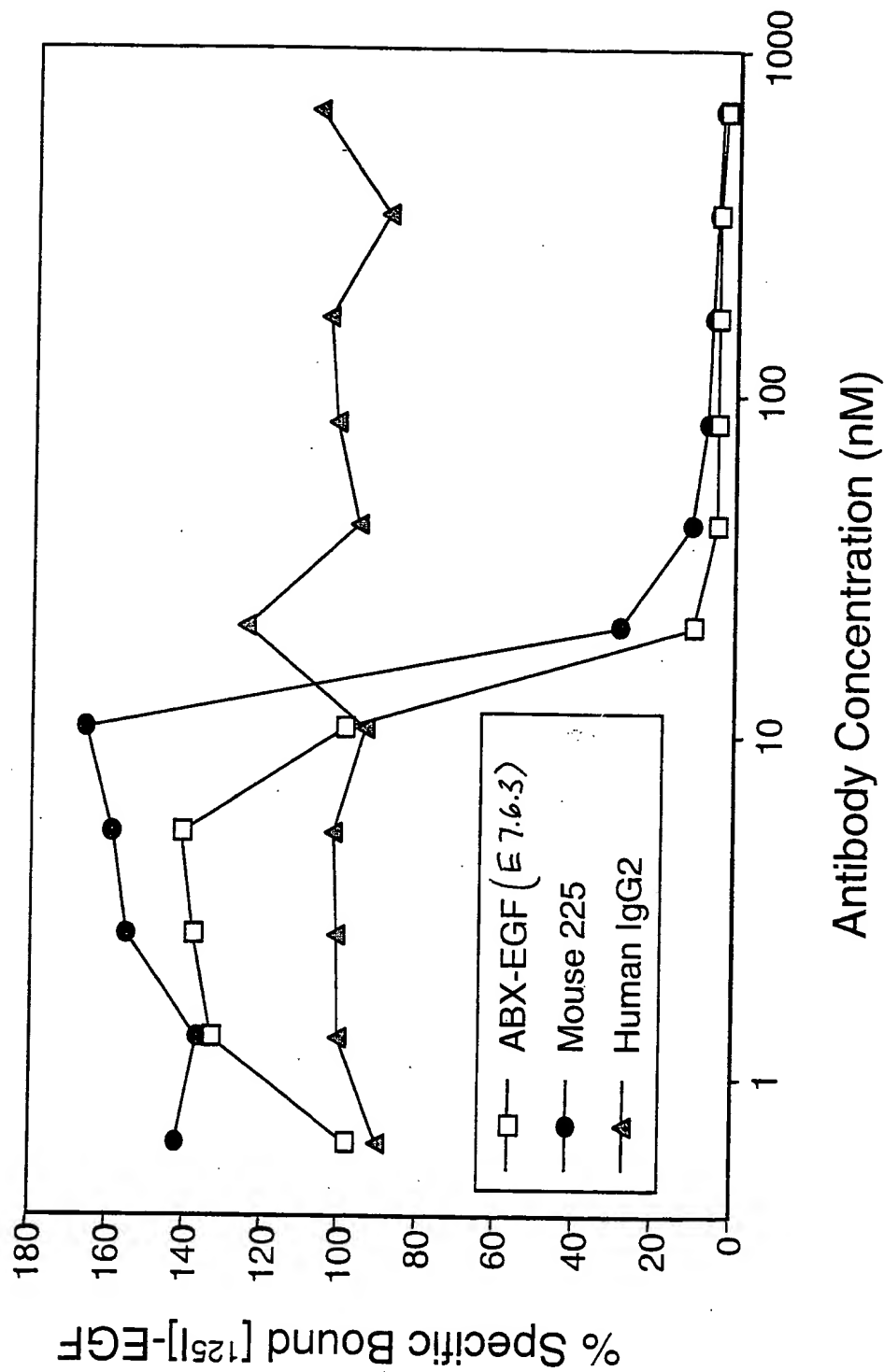
Figure 33

SECRET

Amino Acid Sequence and Structure of Human Kappa Chain Derived from EGFR-Specific Hybridomas

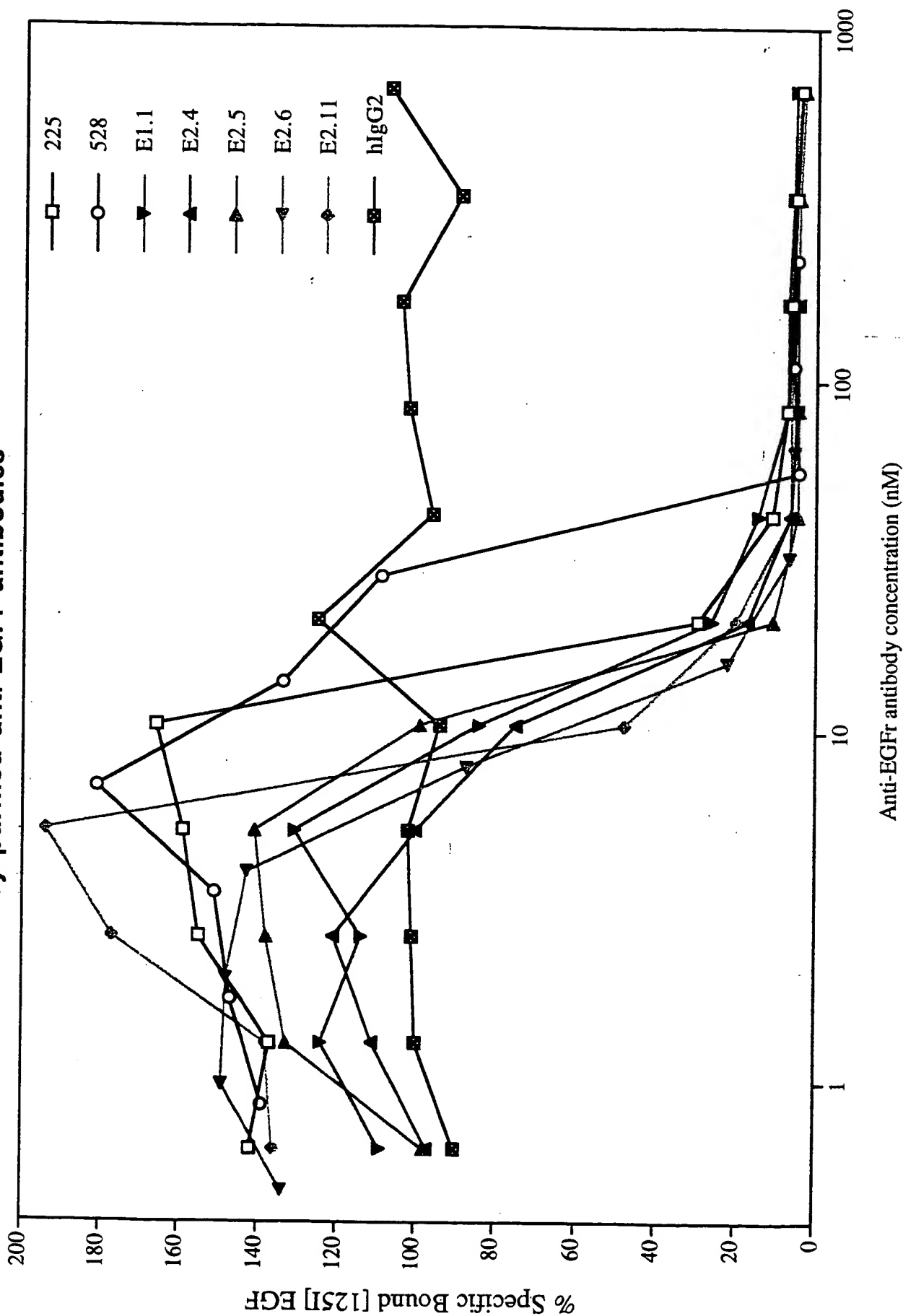
V _K CDR1	V _K SEGMENT		J _K SEGMENT	
	CDR1	CDR2	CDR3	
V _K (13)	TITCOASQDISVILNWTQOKPGKAPKLLIYDASNLETVPSPRFGSGSGTDFTFTISSLPEDIATVYQQYDNL			RTVAAPSVFIFPPSDEQ
Human Ck				
EGF.1.1.K	N--F--V--H--G--		ES--	LTFGGGTKVEIK
EGF.2.4.K	TI--N--S--L--		H--	LTFGGGTKVAIK
EGF.2.5.K			VG--V--ES--	CGFGGGTKLEIK
EGF.2.11.K		N--D--I--N--	S--	LTFGGGTKVEIR
E6.2.K	N--R--N--		H--H--	WTFGGGTKVEIK
E6.3.K	X--N--X--	X--S--XX--	H--X--XS--	LTFGGGTKVEIK
E6.4.K*	R--S--S--	A--S--QS--	F--GYRT--PE	CSFGGGTKLEIK
*02 gene			F--HF--H--	LAFGGGTKVEIK
E7.6.3.K				

ABX-EGF: Blockade of EGF Binding to Human Epidermoid Carcinoma A431 Cells



66504 66543 66

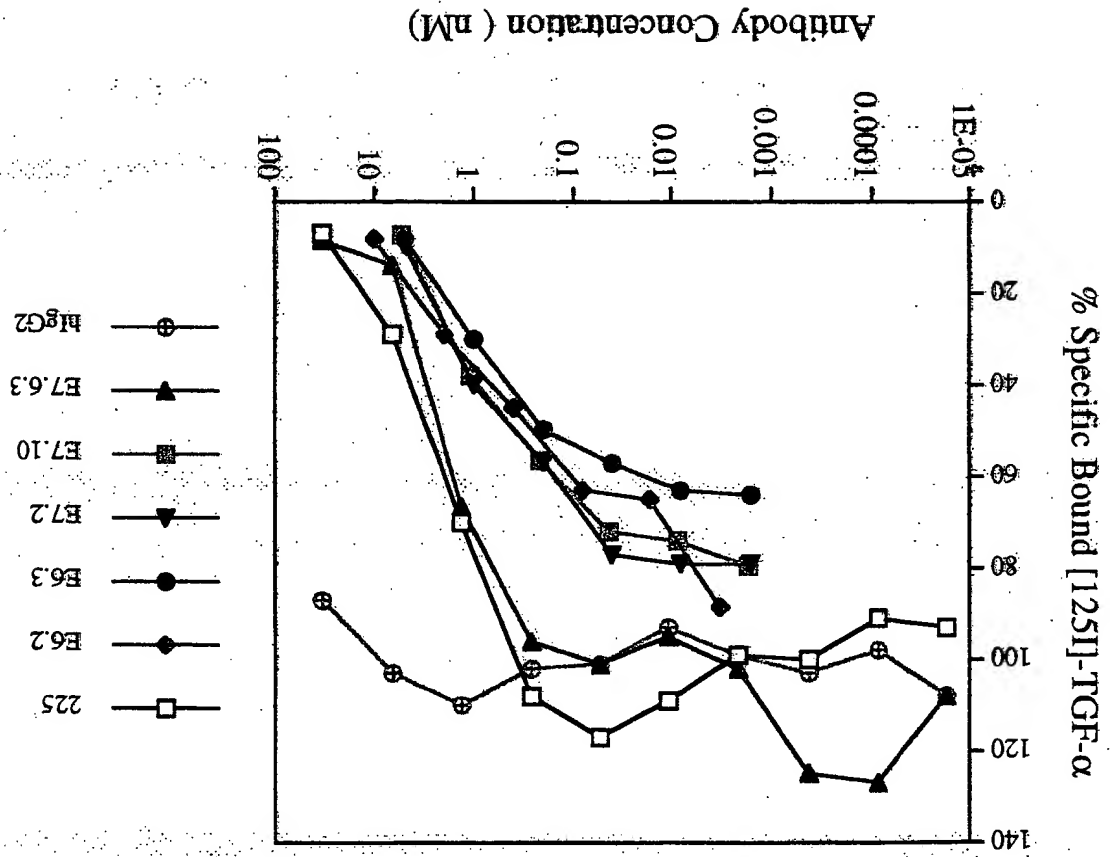
Inhibition of EGF binding to EGF receptors on A431 cells by purified anti-EGFr antibodies



Background=0.1nM [125I]EGF=1016 cpm

Figure 37

Inhibition of TGF- α binding to A431 cells
by anti-EGF receptor antibodies



00107503-110590

Figure 38

ABX-EGF: Blockage of EGF Binding to Human Colon Adenocarcinoma SW948 Cells

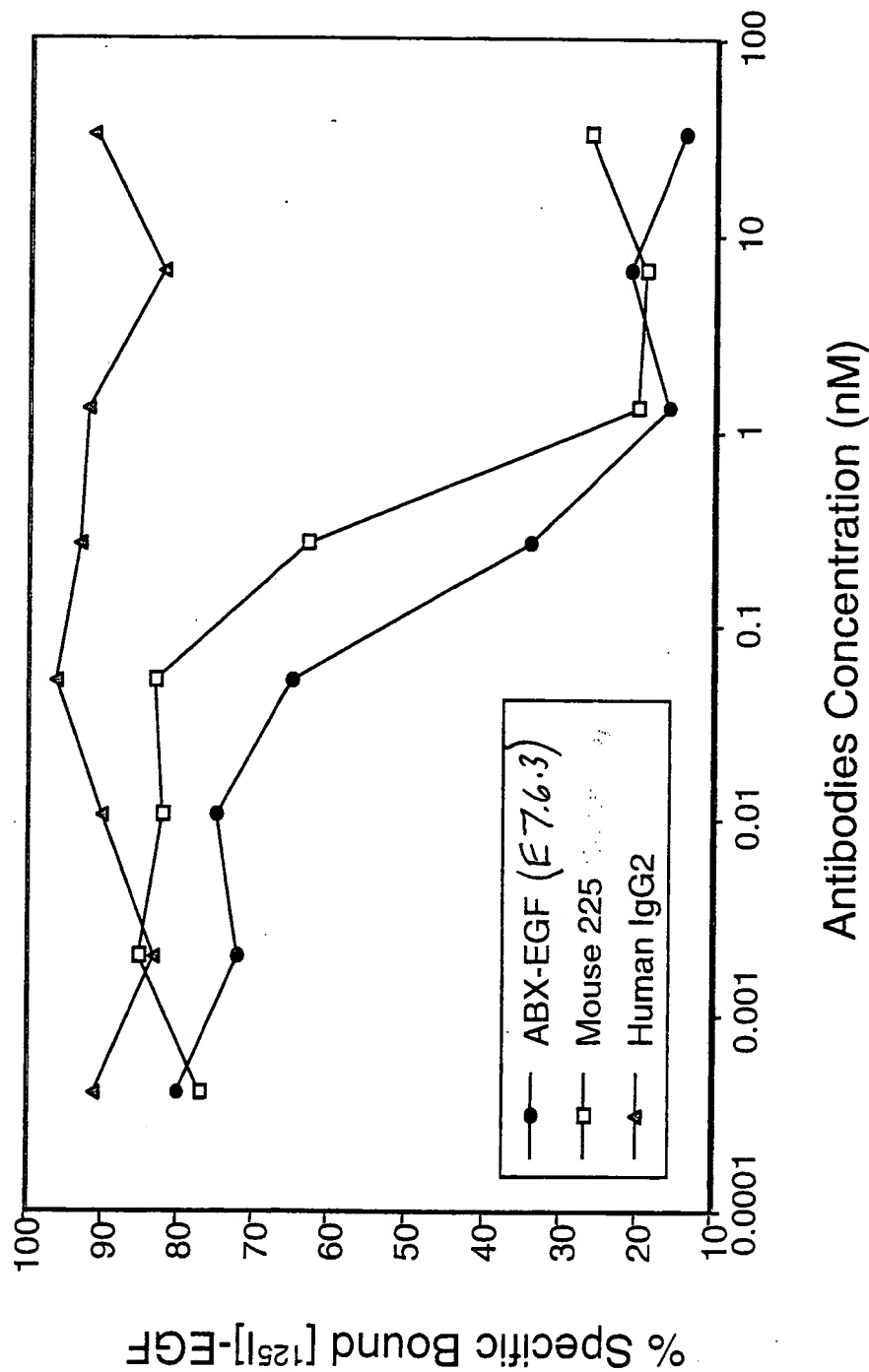


Figure 39

ABX-EGF: Inhibition of Human Colon Adenocarcinoma (SW948) Growth *In Vitro*

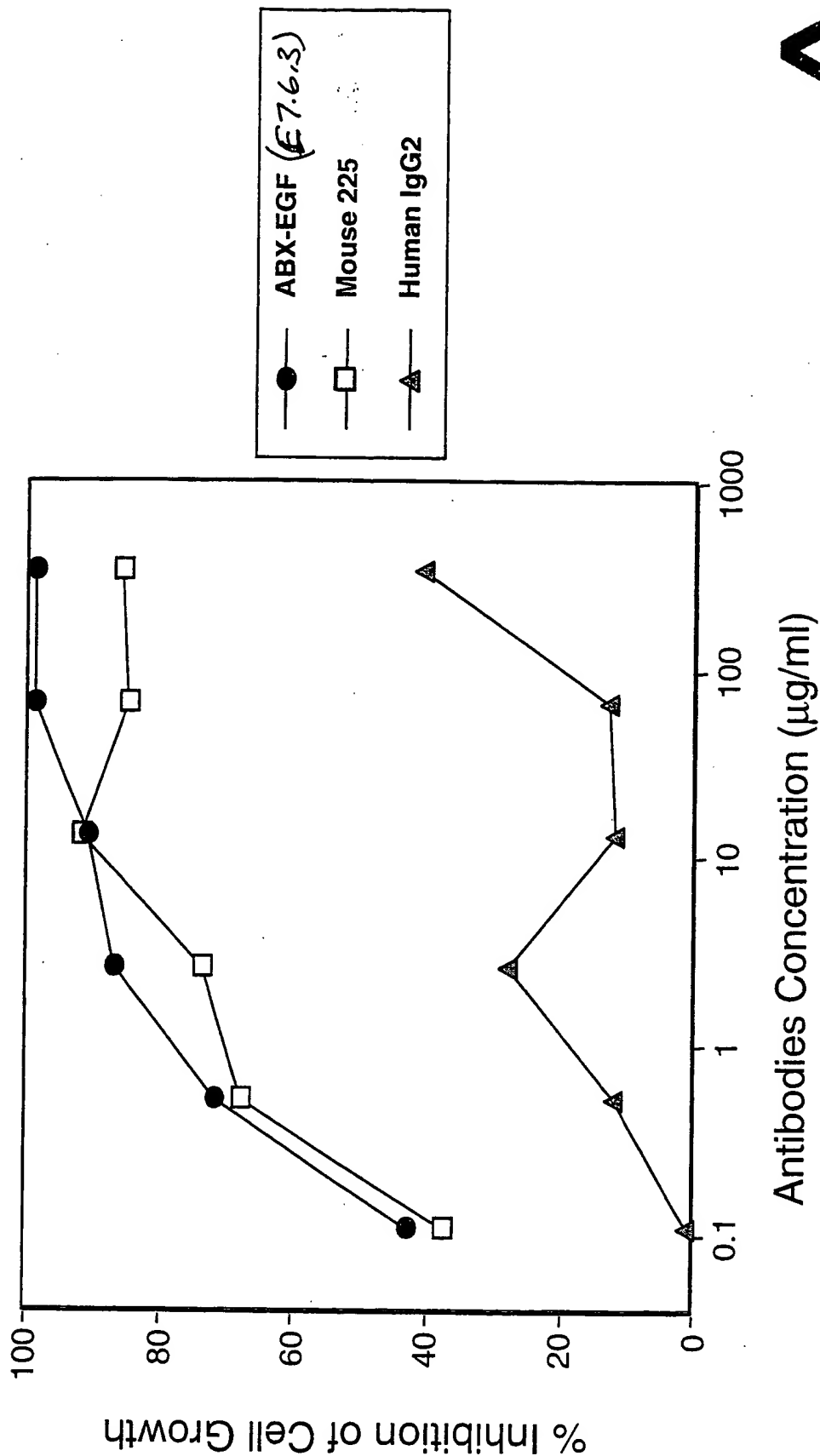
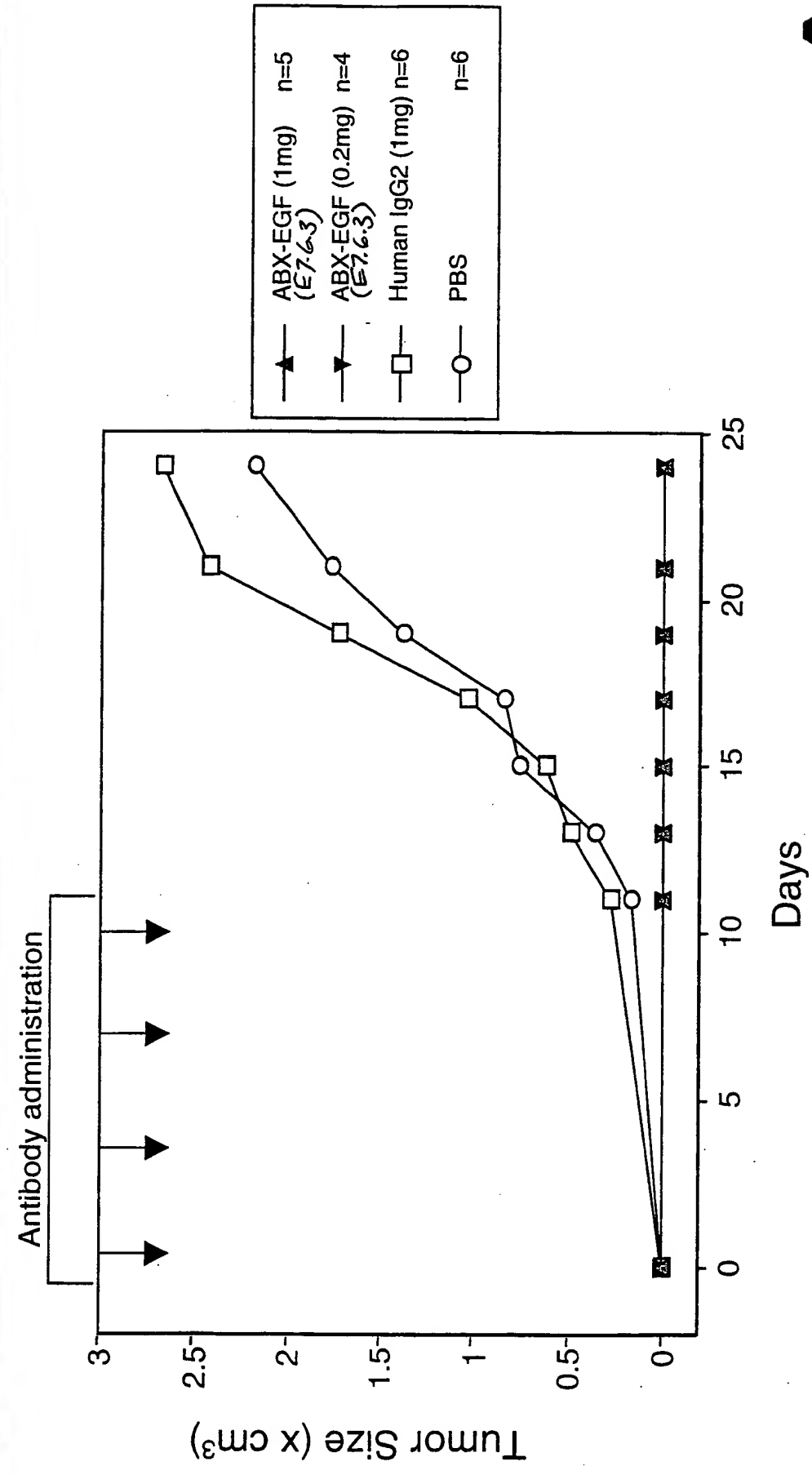


Figure 40

ABX-EGF: Inhibition of Human Epidermoid Carcinoma Growth in Nude Mice



5 x 10⁶ A431 cells injected at day 0

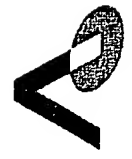


Figure 41

Inhibition of Human Epidermoid Carcinoma Formation in Nude Mice by ABX-EGF

Treatment	Dose (mg)	Tumor Formation ^b (incidence)	Tumor size ^c (cm ³)
PBS		6/6	1.376
Human IgG2 ^a	1	6/6	1.727
E7.6.3	1	0/5	0
	0.2	0/4	0
E2.5	1	0/3	0
	0.2	0/3	0
E1.1	1	0/3	0

^a control human myeloma IgG2

^b incidence determined 19 days post tumor inoculation

^c tumor size measured 19 days post tumor inoculation



Figure 42

ABX-EGF: Prevention of Human Tumor Formation in Nude Mice

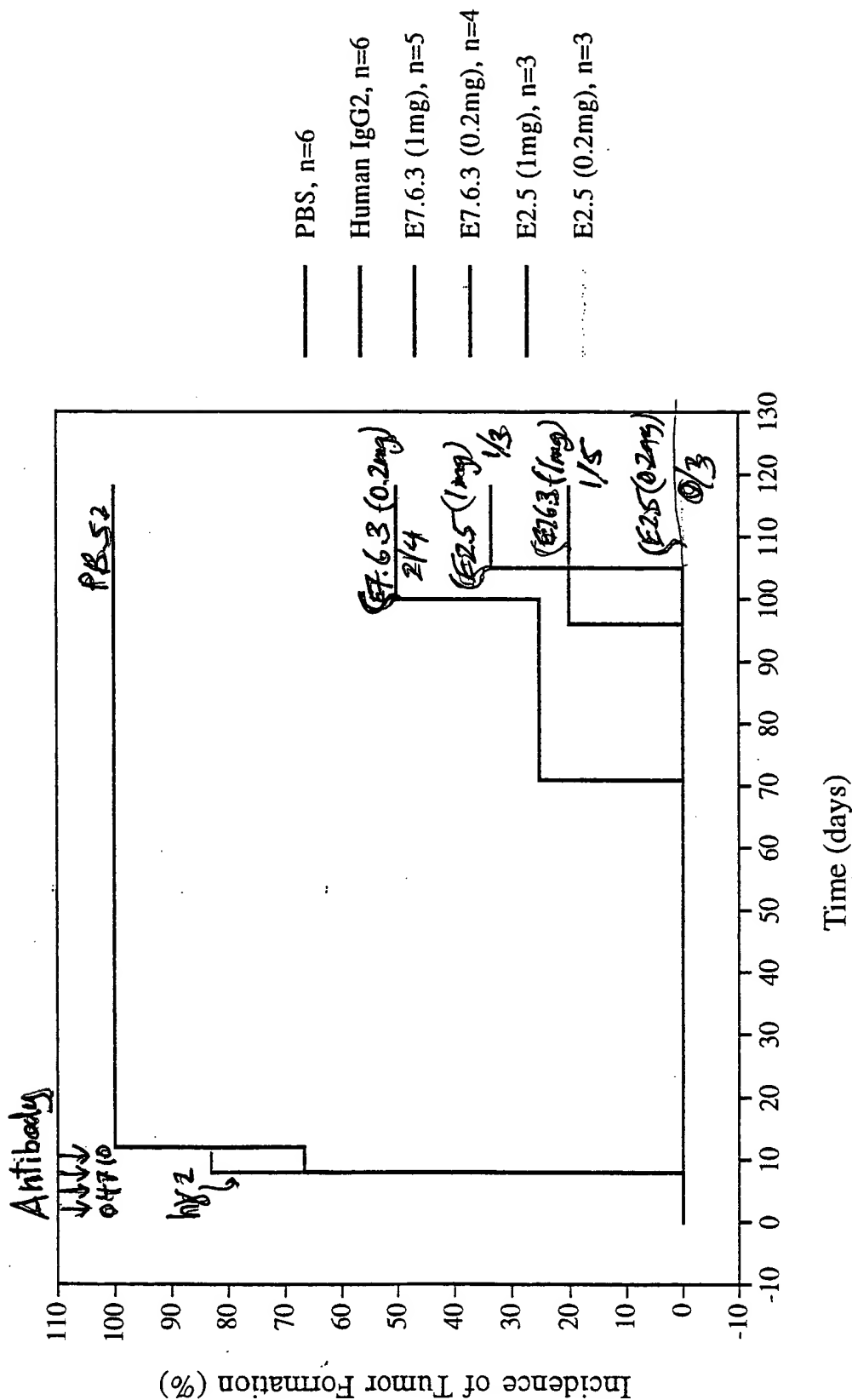
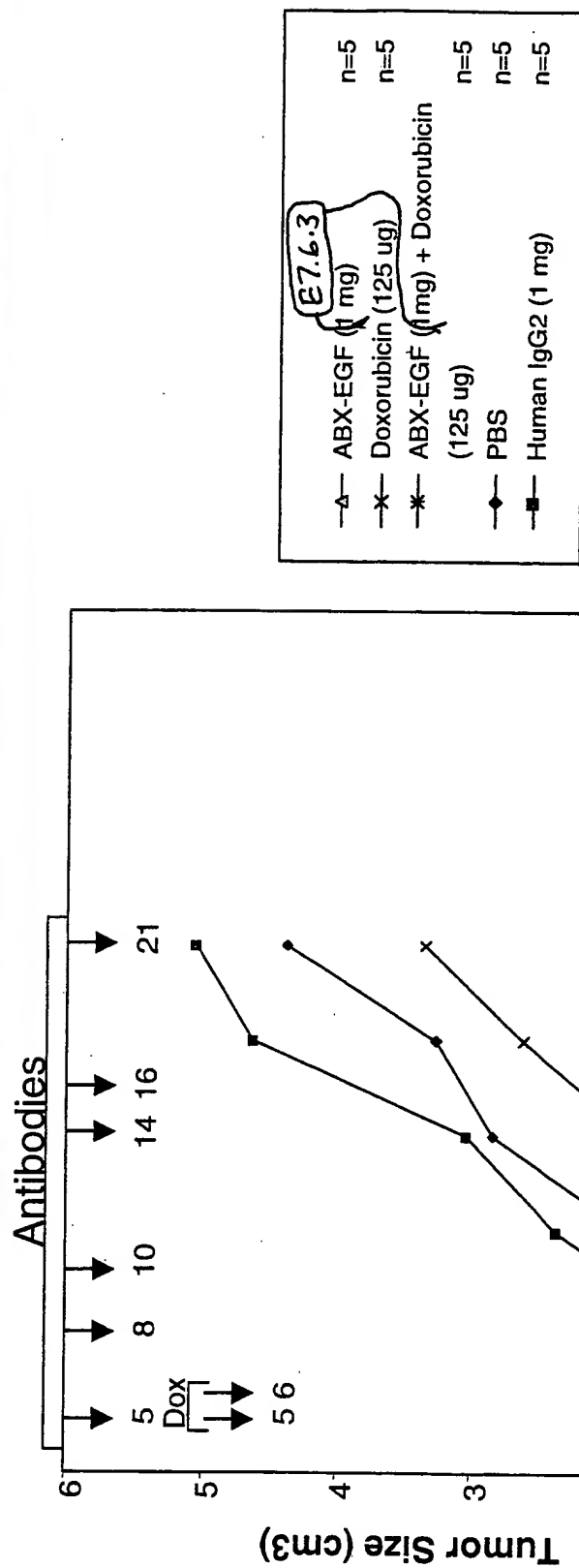


Figure 43

Eradication of Established Human Epidermoid Tumor in Nude Mice by ABX-EGF (E7.6.3)

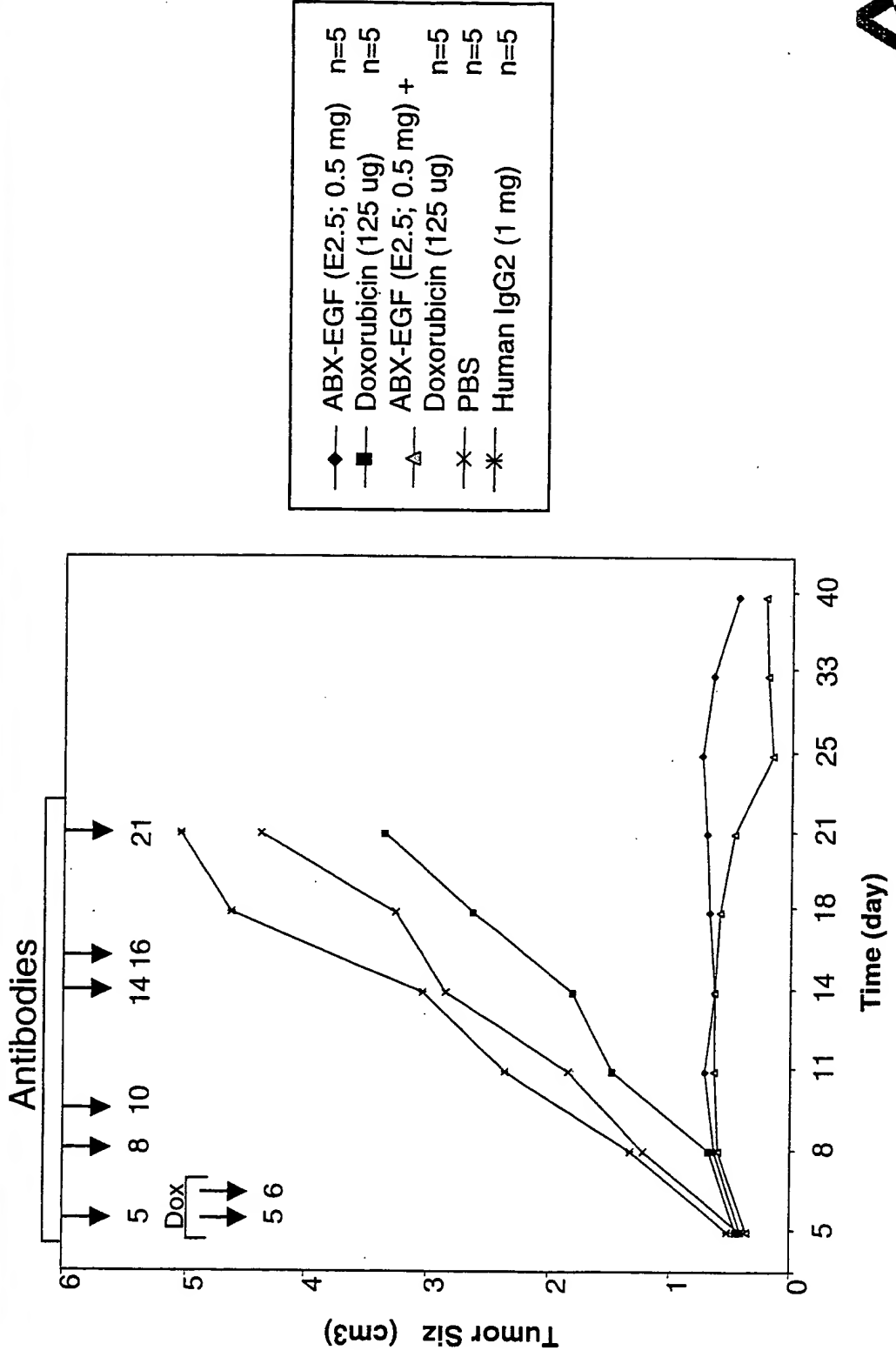


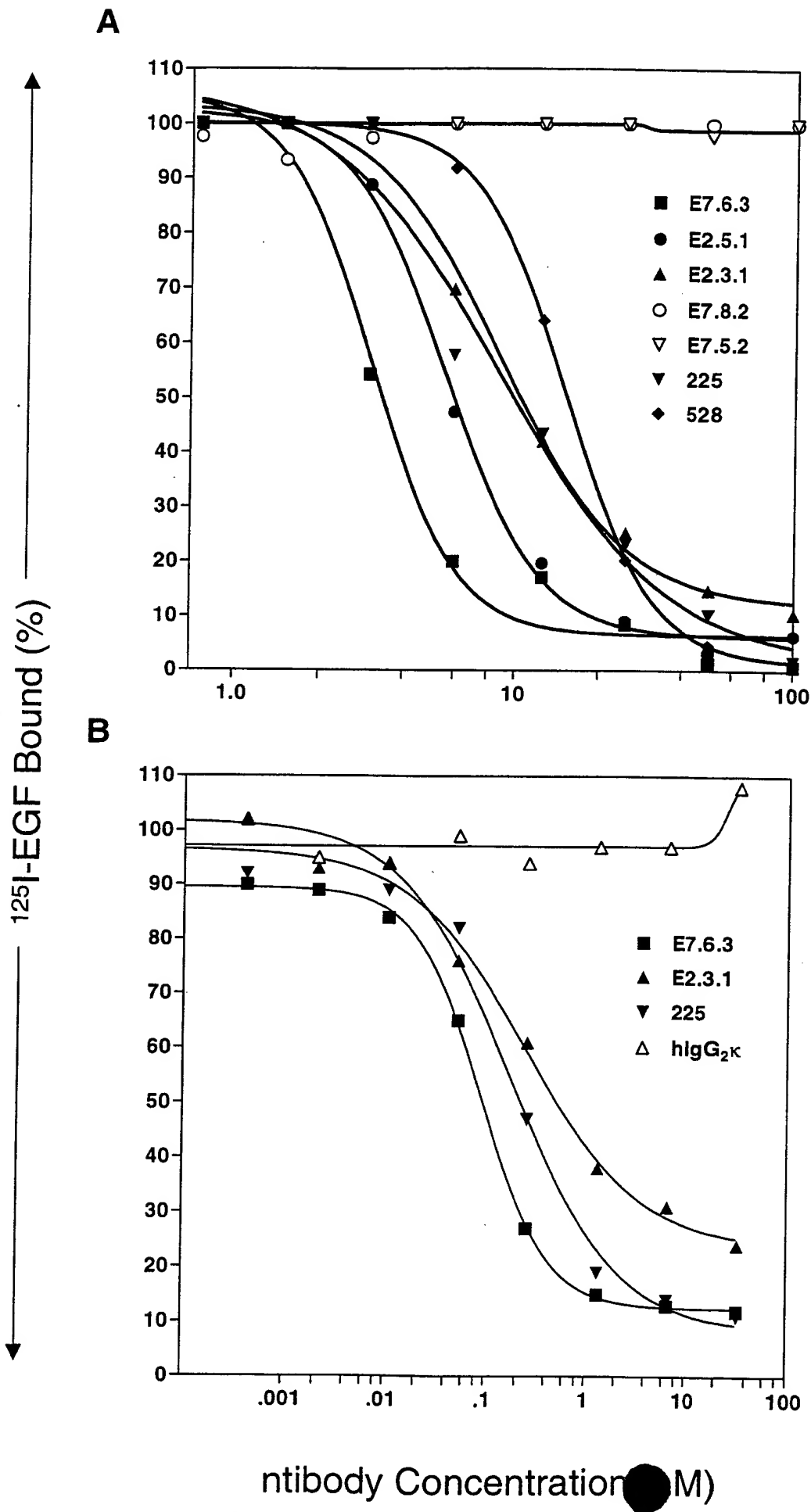
A431 (5 x 10⁶/mouse) were injected at day 0



Figure 44

Eradication of Established Human Epidermoid Tumor in Nude Mice by ABX-EGF (E2.5)

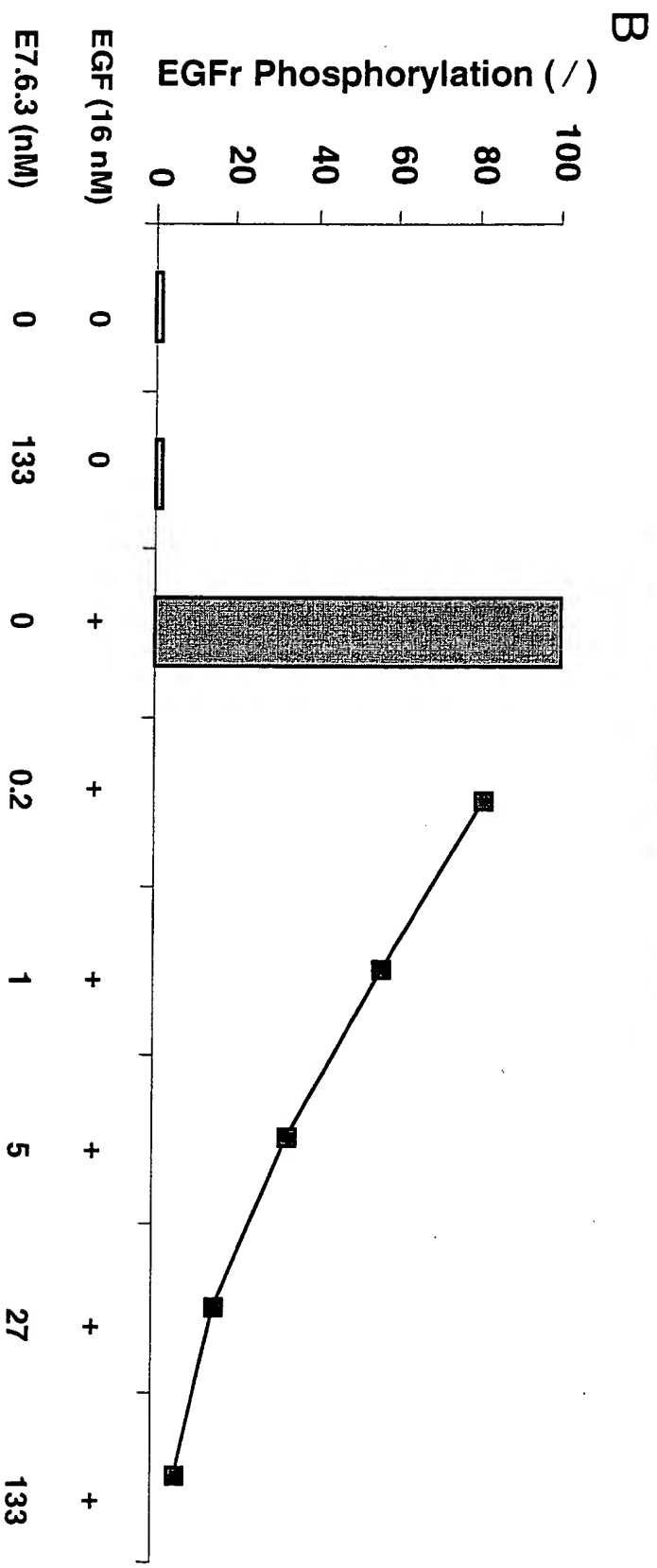
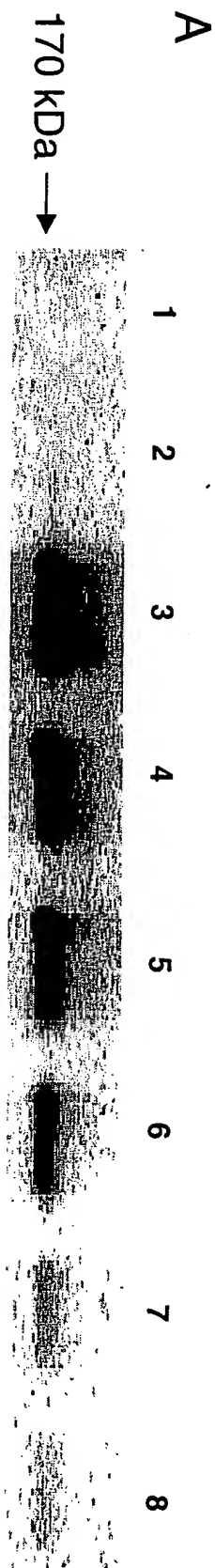




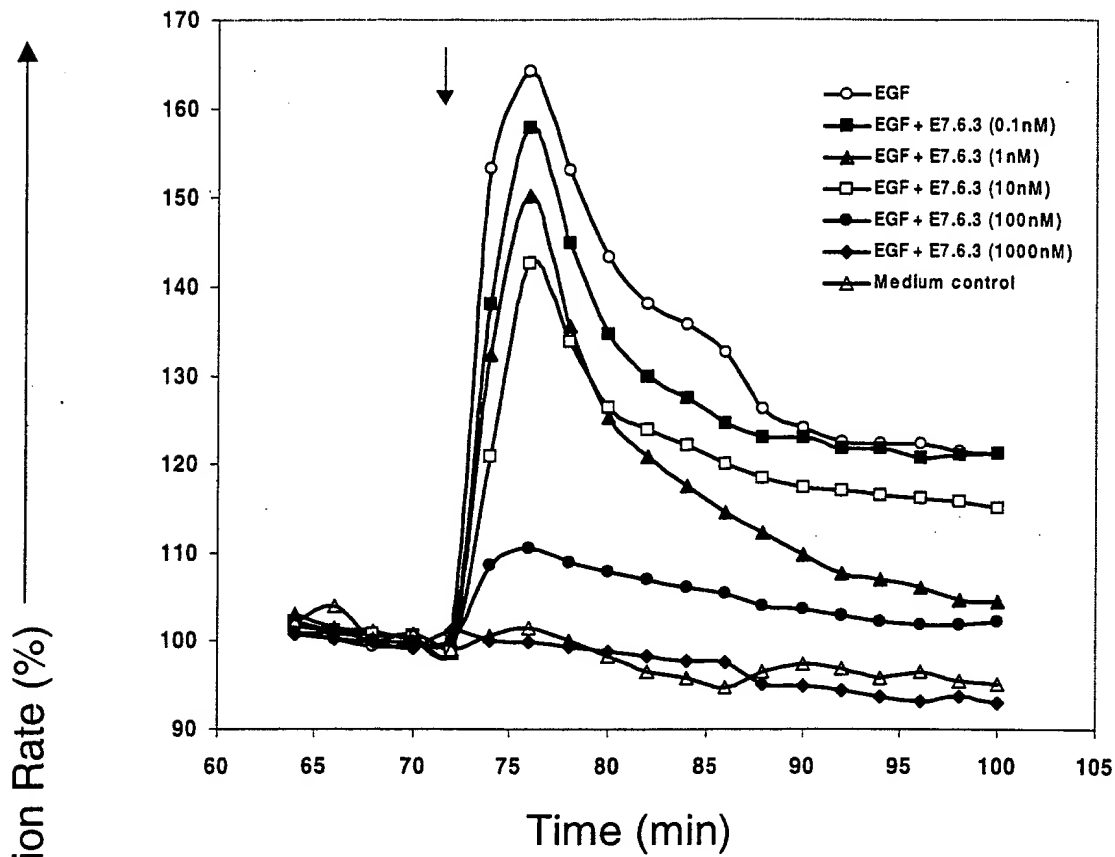
6501-65260

Fig. 46

665011-EGF/EGFR



A



B

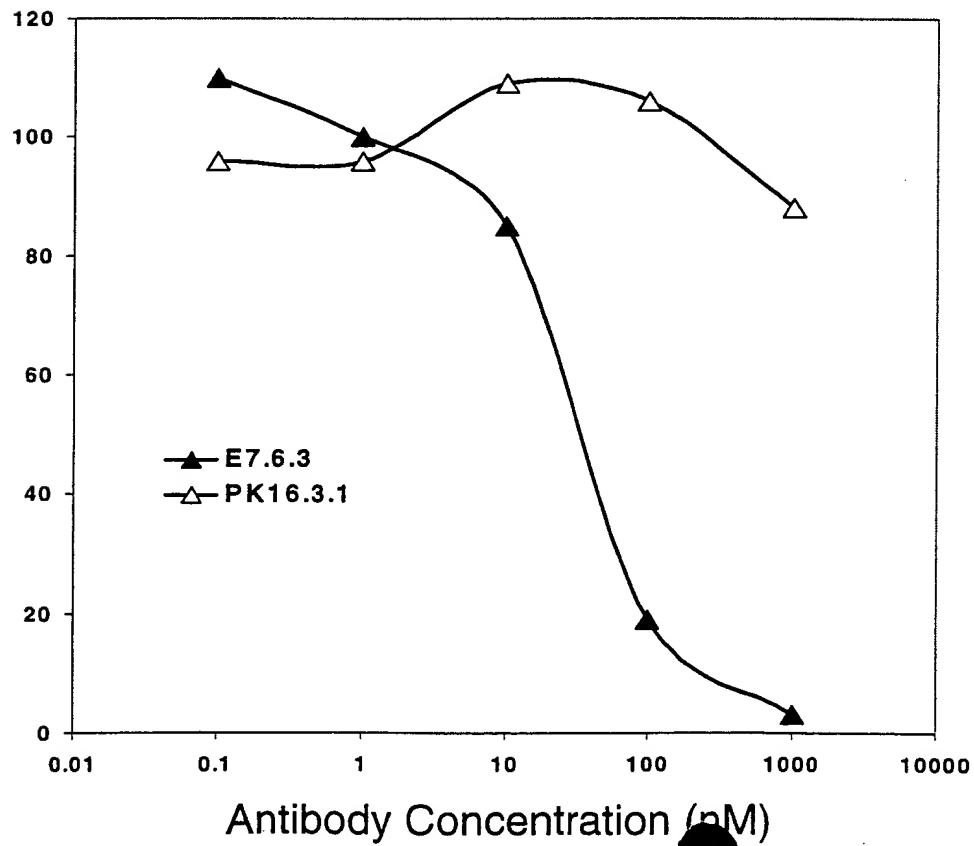
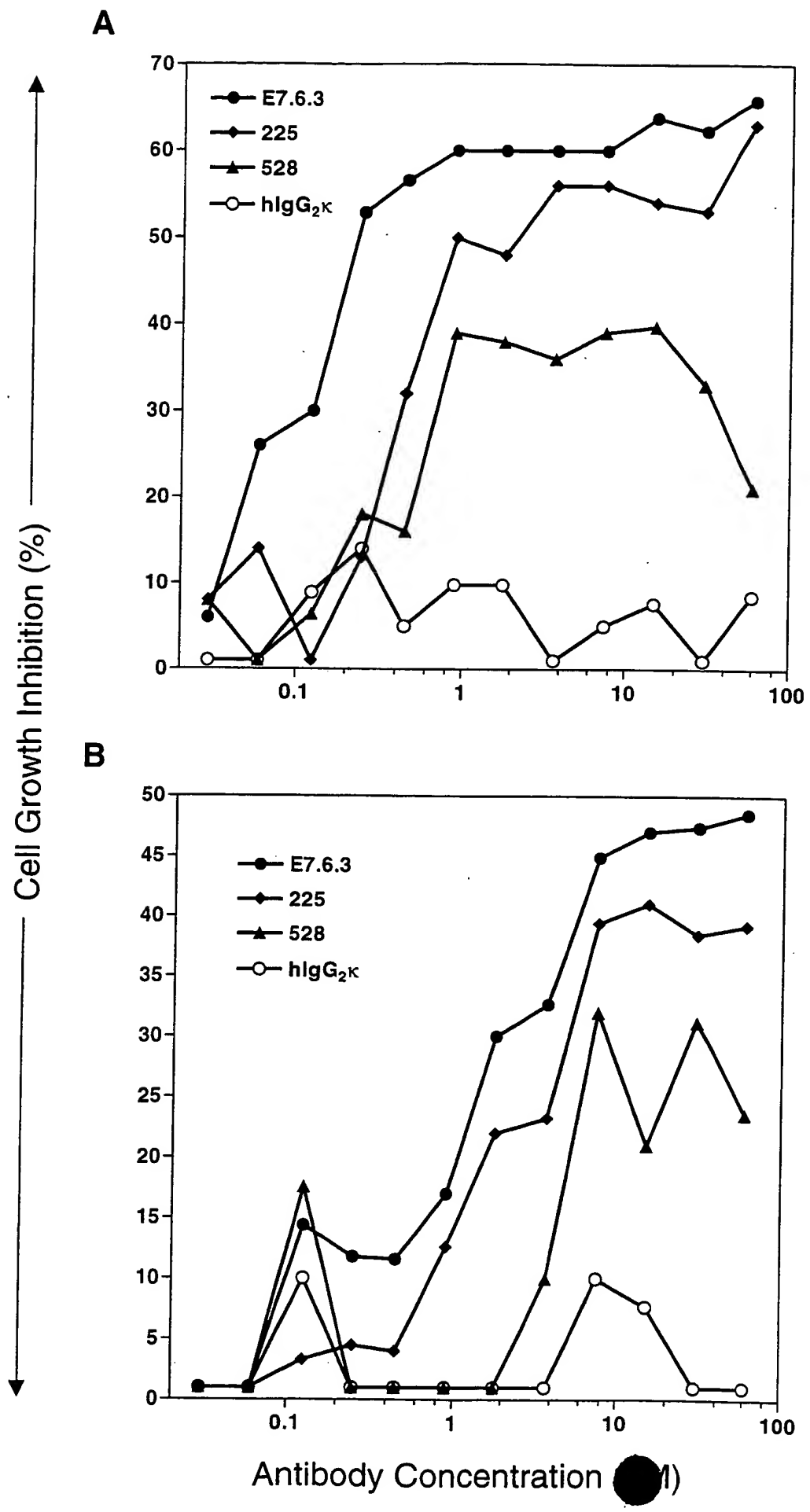
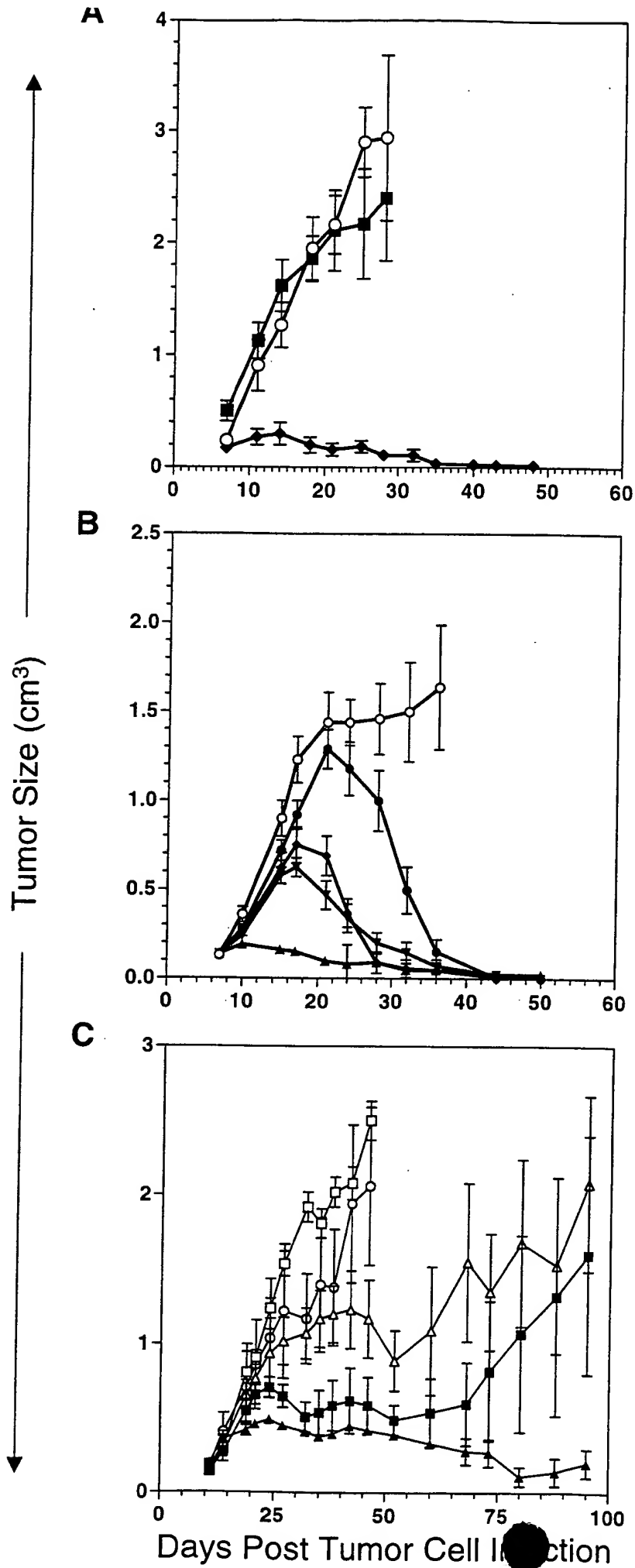


Fig. 48



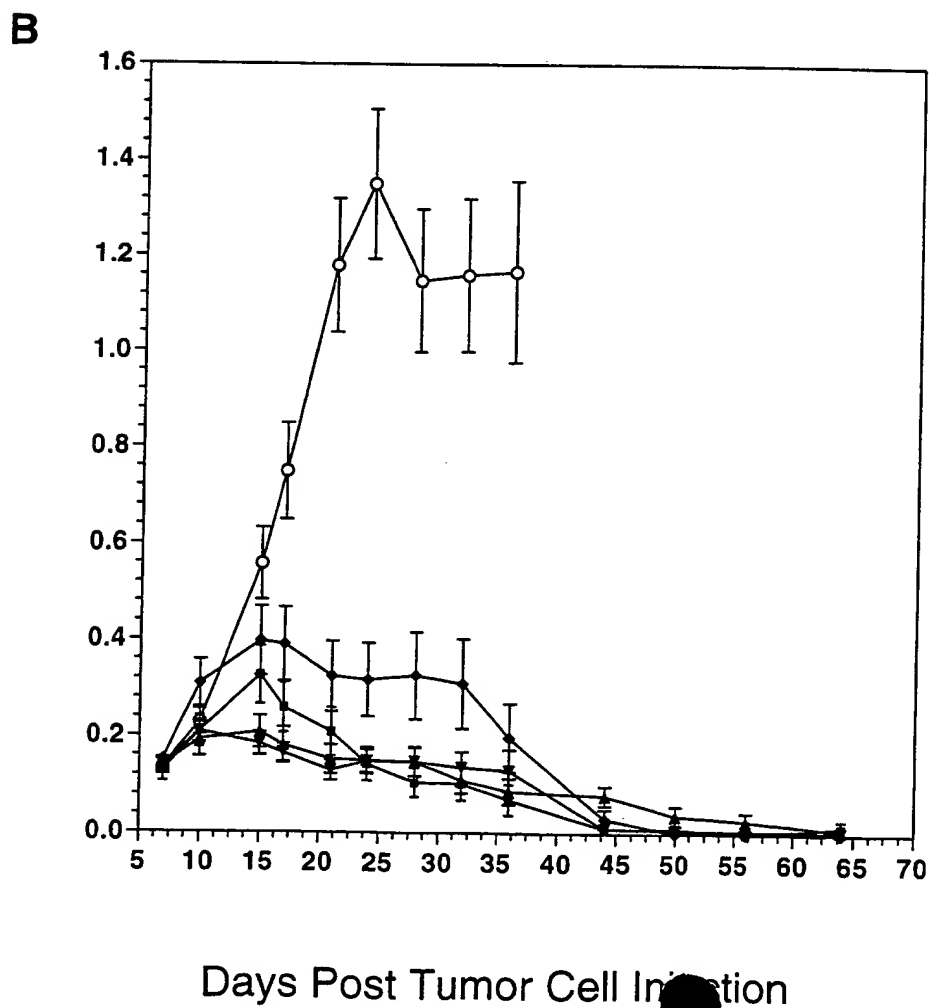
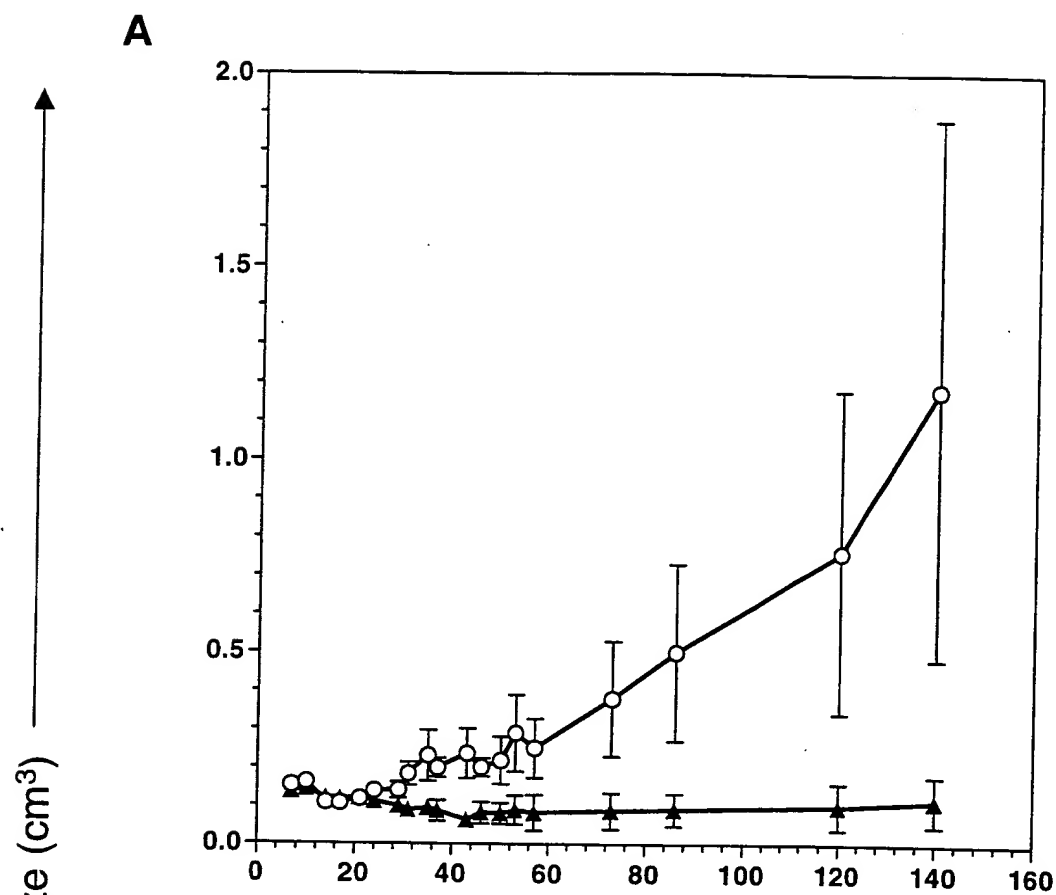
00107593-410598

Fig. 49



00197693-110599

Fig. 50

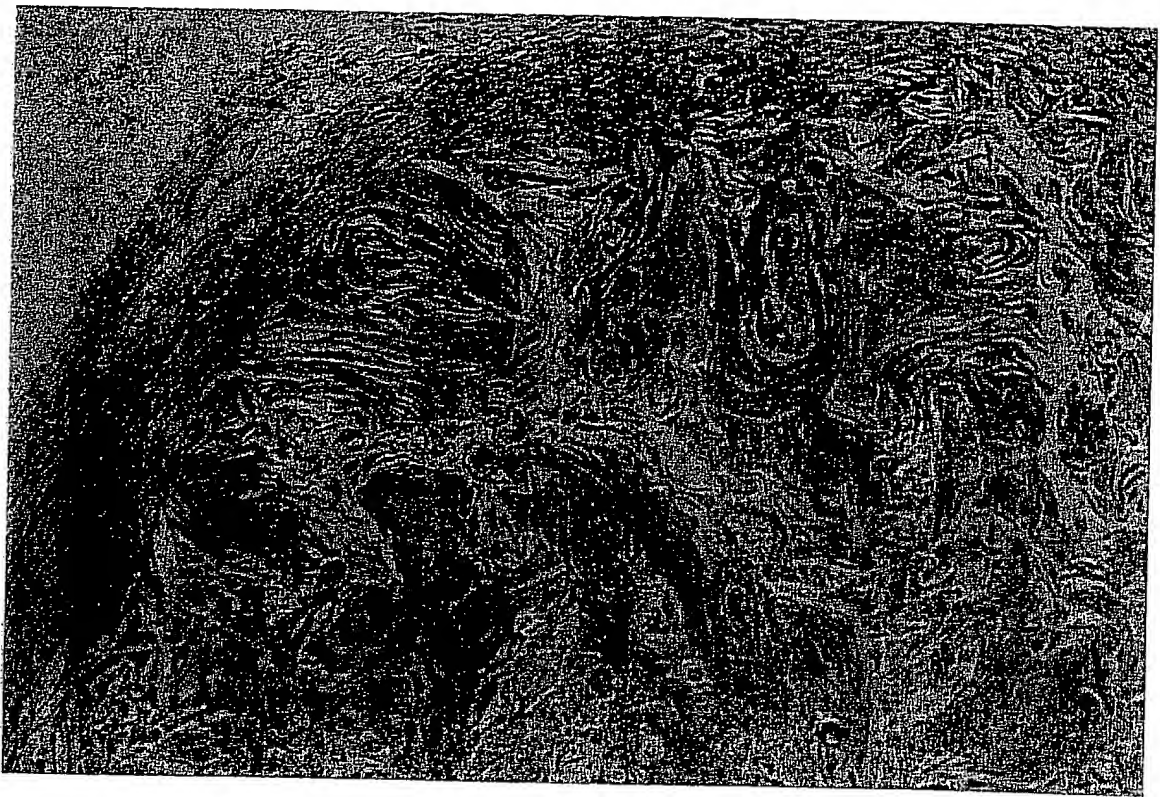


00197593-110598

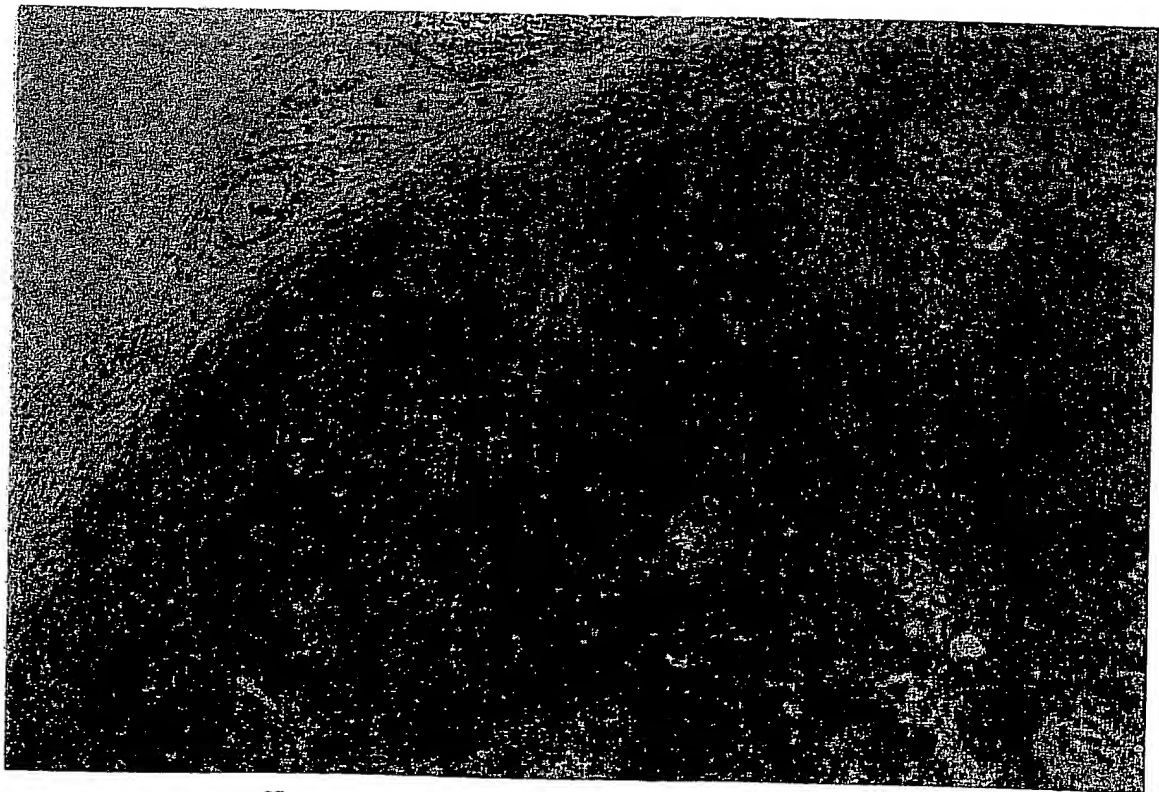
Fig. 51

Figure 7

A.



B.



00497593 410598

7=51

Fig. 52

Time (day)	Incidence of Tumor Formation		
	PBS	PK16.3.1 (1 mg)	E7.6.3 (0.2 mg)
			E7.6.3 (1 mg)
0	0/5	0/5	0/10
3	4/5	0/5	0/10
8	4/5	3/5	0/10
10	5/5	5/5	0/10
25	5/5	5/5	0/10
100	ND	ND	0/10
250	ND	ND	0/10

09197593-110599

Table 1252

Fig. 53

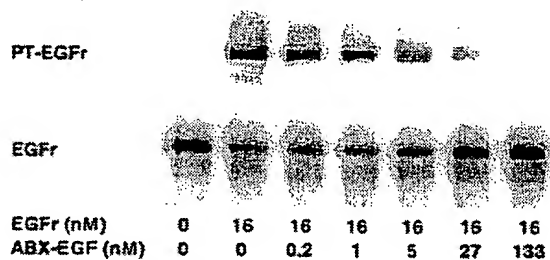
Treatment (dose/injection)	Total Dose	Total No. of Mice	Tumor-free Mice on Day 60	
			No.	%
None		71	0	0
Control IgG ₂ K (1 mg)	6 mg	16	0	0
E7.6.3 (1 mg)	6 mg	50	50	100
E7.6.3 (0.5 mg)	3 mg	20	19	95
E7.6.3 (0.25 mg)	1.5 mg	5	3	60
E7.6.3 (0.2 mg)	1.2 mg	19	5	26
E7.6.3 (0.1 mg)	0.6 mg	20	13	65
E7.6.3 (0.05 mg)	0.3 mg	15	1	7

00197593-110599

Table 2-53

B7.6.3

Inhibitory Effects of ~~ABX-EGF~~ on EGF-induced
Tyrosine-phosphorylation and Degradation of EGFr in
Cultured A431 Cells

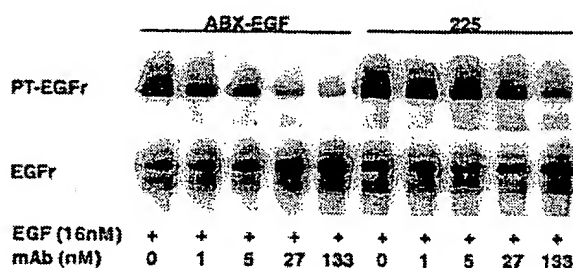


A

00197593 110599

Preliminary Results Obtained Comparing

Inhibitory Effects of ~~ABX-EGF~~^{EGF 16.3} and 225 on EGF-induced Tyrosine-phosphorylation and Degradation of EGFr in Cultured A431 Cells



00197503-110500

Preliminary Results Obtained Comparing

Effects of EGF, ABX-EGF and 225 on
Tyrosine-phosphorylation and Degradation of EGFr in
Cultured A431 Cells

PT-EGFr

EGFr

EGF (nM)	0	0	0	1.6	1.6	1.6	16	16	16	160	160	160
ABX-EGF (133nM)	-	+	-	-	+	-	-	+	-	-	+	-
225 (133nM)	-	-	+	-	-	+	-	-	+	-	-	+

00407603-40000

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
GCGATCCAGC	CTTTTAGGTC	CATGCCNTTC	TCCTGIGNAG	CGTCTGGATT	50
A I Q P	F R S	M P F	S C X A	S G F	
CCCCITCAGT	AGNINIGGCA	TGCACTGGGT	CCGCCAGGCT	CCAGGCAAGG	100
P F S	X X G M	H W V	R Q A	P G K G	
GGCTGGAGTG	GGTGGCAGTT	ATATGGTATG	ATGGAAGTAA	TAAATACTAT	150
L E W	V A V	I W Y D	G S N	K Y Y	
GCAGACTCCG	TGAAGGGCCG	ATTCAACATC	TCCAGAGACA	ATTCCAAGAA	200
A D S V	K G R	F T I	S R D N	S K N	
CACGCTGTAT	CTGCAATGA	ACAGACTGAG	AGCCGAGGAC	ACGGCTGTGT	250
T L Y	L Q M N	R L R	A E D	T A V Y	
ATTACTGIGC	GACATTTTC	GACGCGTATC	CGTTTTCAGTAA	CTGCGGCGAC	300
Y C A	R F L	E W L P	F D Y	W G Q	
CGAAGCGGCTTACCGCTATN	CTTCAGTCC	ACCAAGGGCC	CATCGGTCTT		350
G T L V	T V X	S D S	T K G P	S V F	
CNCCCTGGCG	CCCTGCTTCC	AGGAGCACCC	TCNGANAGCA	CANANGGCC	400
X L A	P C F Q	E H P	X X A	X X A P	
CTGGGACTGN	CTGNTACAAG	GACTINCTTC	CCTCNAACCN	GGTGACCNIN	450
G T X	X Y K	D X F P	S N X	V T X	
TCNTGGGAAA	CTCAGNGCNC	NTCTNNATNA	C		481
S W E T	Q X X	S X X			

00197503-110500

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
GGAACCTTIN	GGTTCGCNCC	TTTTGGAGNC	AGACCCANCA	TCACTTGTCG	50
G T F X	F A P	F G X	R P X I	T C R	
GGCGAGTCAG	GGCATTAGCA	ATTTTTTAGC	CTGGTTTCAG	CAGAAACCAG	100
A S Q	G I S N	F L A	W F Q	Q K P G	
GGATAGCCCC	TAAGTCCCTG	ATCTATGCTG	CATCCACTTT	GCAAAGTGGG	150
I A P	K S L	I Y A A	S T L	Q S G	
GTCCCATCAA	AGTTCACCGG	CAGTGGATAT	GGACAGATT	TCACTCTCAC	200
V P S K	F T G	S G Y	G T D F	T L T	
CATCAGCAGC	CTGCAGCCTG	AAGACTTTGC	AACTTATTAT	TGTCACAAT	250
I S S	L Q P E	D F A	T Y Y	C Q Q Y	
ATAATGTTTA	CCCATTCACT	TTCGGCCCTG	GGACCAAAGT	GGATATCAAA	300
N V Y	P F T	F G P G	T K V	D I K	
CGAACTGTGG	CTGCACCATC	TGTCCTTCATC	TTCCCGCCAT	CTGATGAGCC	350
R T V A	A P S	V F I	F P P S	D E P	
AGTTGAAATC	TGGAAGTCCC	TCGTGTGTGT	GCCTGCTGAA	TAAGTTCTAT	400
V E I	W N C L	C C V	P A E	. L L S	
CCCAGAGAGG	CCAAAGTACA	GTGGAAGGTG	GATAACGCCN	CNNTTGGCGG	450
Q R G	Q S T	V E G G	. R X	X W R	
NNICCTTTTCN	CTCNCCCNIC	CTCNCCCNIC	CTCTCNCA		489
X P F X	X P S	S X X	L S X		

00197502-110500

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
AAGCCTGTTG	CCTCAGTGCA	GGTCTCCTGC	AAGGCTTCTG	GATACACCTT	50
K P V A	S V Q	V S C	K A S G	Y T F	
CACCAGTTAT	GATATCAACT	GGGTGCGACA	GGCCACTGGA	CAAGGGCTTG	100
T S Y	D I N W	V R Q	A T G	Q G L E	
AGTGGATGGG	ATGGATGAAC	CCTAACAGTG	GTAACACAGG	CTATGCACAG	150
W M G	W M N	P N S G	N T G	Y A Q	
AAGTTCCAGG	GCAGAGTCAC	CATGACCAGG	AACACCTCCA	TAAGCACAGC	200
K F Q G	R V T	M T R	N T S I	S T A	
CTACATGGAG	CTGAGCAGCC	TGAGATCTGA	GGACACGGCC	GTGTATTACT	250
Y M E	L S S L	R S E	D T A	V Y Y C	
GTGCGAGAGG	AGGCCCCAT	AGCAGTGGCT	GGACCTTCTT	TGACTACTGG	300
A R G	G P Y	S S G W	T F F	D Y W	
GGCCAGGGAA	CCCTGGTCAC	CGTCTCCTCA	GCCCTNCACC	AAGGGCCCAT	350
G Q G T	L V T	V S S	A L H Q	G P I	
CGGTCTTCCC	CCTGGCGCCC	TGCTCCAGGA	GCACCTCCCA	GAGCACANTC	400
G L P	P G A L	L Q E	H L P	E H X X	
NNCCCTTGGG	CTGCCTGGNN	CAAGGACTCT	TTCCCCNAAC	CCCGGNTGA	449
P L G	C L X	Q G L F	P X T	P X	

DNI

00100700110500

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
TTTGAACCCCT	TGNIGGCCGT	GTCCTCINGGC	GCGAGGGCCA	CCATCAACTG	50
F E P F	X A V	S L G	A R A T	I N C	
CAAGTCCAGC	CAGCGTGT	TATACANCTC	CAACAATAAG	AACTGCTTAG	100
K S S	Q R V L	Y X S	N N K	N C L A	
CTTGGTACCA	GCAGAAACCA	GGACAGCCTC	CTAAGCTGCT	CATTTACTGG	150
W Y Q	Q K P	G Q P P	K L L	I Y W	
ACATCTACCC	GGGAATCCGG	GGTCCCTGCC	CGATTTCAGTG	GCAGCGGGTC	200
T S T R	E S G	V P A	R F S G	S G S	
TGGGACAGAT	TTCACTCTCA	CCATCAGCAG	CCTGCAGGCT	GAAGATGTGG	250
G T D	F T L T	I S S	L Q A	E D V A	
CAGTTTATTA	CTGTCAGCAA	TATTATAGTA	CTCCACTCAC	TTTCGGCGGA	300
V Y Y	C Q Q	Y Y S T	P L T	F G G	
GGGACCATGG	TGGAGATCAA	GCGAACTGTG	GCTGCACCAT	CTGTCTTCAT	350
G T M V	E I K	R T V	A A P S	V F I	
CTTCCCGCCA	TCTGATGAGC	CNGINTGAAA	TCTGGAACTG	CCTCTGTTTG	400
F P P	S D E P	V . N	L E L	P L F V	
TGTGCCCTGC	TGAATAACTT	CTATCCCGA	GAGGCCAAAG	TACCAGTGG	450
C P A	E . L	L S Q R	G Q S	T S G	
AGGTGGATAA					460
R W I					

Abstract

E20.8.1MG30.Seq Sequence

v-3p3711020
 D
 J JH4b Fig. 61

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
CNGCCTGTIA	GGTCNTGCG	ACTCTCCTGT	GCAGCGTCTG	GATTCATCTT	50
X P V R	S X R	L S C	A A S G	F I F	
CAGTAGNTAT	GGCATGCACT	GGGTCCGCCA	GGCTCCAGGC	AAGGGGCTGG	100
S X Y	G M H W	V R Q	A P G	K G L E	
AGTGGGTGGC	AATTATATGG	TATGATGGAA	GTAATAAATA	CTATGCAGAC	150
W V A	I I W	Y D G S	N K Y	Y A D	
TCCGTGAAGG	GCCGATTCAC	CATCTCCAGA	GACAATTCCA	AGAACACGCT	200
S V K G	R F T	I S R	D N S K	N T L	
GATCTGCAA	ATGAACAGCC	TGAGAGCCGA	GGACACGGCT	GIGIATTACT	250
Y L Q	M N S L	R A E	D T A	V Y Y C	
GTCGAGAGA	CGGGGGGCCA	<u>CGGIGGTTTC</u>	TCGCTTCTGA	CTACTGGGGC	300
A R D	G G P	R W F L	A S D	Y W G	
CAGGGAACCC	TGGTCACCGT	CTCCTCAGCC	TCCACCAAGG	GCCCATCGGT	350
Q G T L	V T V	S S A	S T K G	P S V	
CTTCCCCCTG	GCGCCCTGCT	CCAGGAGCAC	CCTTCGAGAG	CACAGCGGCC	400
F P L	A P C S	R S T	L R E	H S G P	
CTGGGCTGCC	TGGTCAAGG	ACTACTTTCC	CCGAACCGGT	GACGGTGINC	450
G L P	G S R	T T F P	E P V	T V X	
GTGGAACTC	ATGAC				465
V G T H	D				

00107503 110500

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
AGTCTCCAGA	CTCCCTGGTT	GTGTCCTCTGG	GCGAGAGGGC	CACCATCAAC	50
S L Q T	P W L	C L W	A R G P	P S T	
TGCAAGTCCA	GNCAGAGTAT	TTTATACAGC	TCCAACAATC	AAAAACTTCT	100
A S P	X R V F	Y T A	P T I	K N F L	
TAGCTTGGTA	CCAGCAGAAA	CCAGGACAGC	CTCCGAAGTT	GCTCATTTAC	150
A W Y	Q Q K	P G Q P	P K L	L I Y	
TGGGCATCTA	TTCGGGAATC	CGGGGTCCCT	GACCGATTCA	GTGGCAGCGG	200
W A S I	R E S	G V P	D R F S	G S G	
GTCTGGGACA	GATTTCACTC	TCACCATCAG	CAGCCTGCAG	GCTGAAGATG	250
S G T	D F T L	T I S	S L Q	A E D V	
TGGCAGTTTA	TTACTGTCAG	CAGTATTATA	GTATTCCGTG	CACTTTITGGC	300
A V Y	Y C Q	Q Y Y S	I P C	T F G	
CAGGGGACCA	AGCTGGAGAT	CAAACGAACT	GTGGCTGCAC	CATCTGTCTT	350
Q G T K	L E I	K R T	V A A P	S V F	
CATCTTCCCG	CCATCTGATG	AGCAGTTGAA	ATCTGGAACT	GCCTCTGTGTG	400
I F P	P S D E	Q L K	S G T	A S V V	
TGTGCCTGCT	GAATAACTTC	TATCCCAGAA	AGGCCAAAGT	ACATGAAGGG	450
C L L	N N F	Y P R K	A K V	H E G	
TTCAAA					456
F K					

00107603-110500

Fig. 63

THE UNIVERSITY OF CHICAGO

[illegible]

E20.18MG30.Seq Sequence

D-
J- Fig. 65

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
CGTGATCCNC	CTGGNIGGTC	CCTGAGACTC	TCCTGIGCAG	CGTCTGGATT	50
R D P P	G W S	L R L	S C A A	S G F	
CATCTTCANT	AACTATTNCA	TGCACTGGGT	CCGCCAGGCT	CCAGGCAAGG	100
I F X	N Y X M	H W V	R Q A	P G K G	
GGCTGGAGTG	GGTGGCAATT	ATATGGTATG	ATGGAAGTAG	CAAATACTAT	150
L E W	V A I	I W Y D	G S S	K Y Y	
GCAGACTCCG	NGAAGGGCCG	ATTCACCATC	TCCAGAGACA	ATTCCAAGAA	200
A D S X	K G R	F T I	S R D N	S K N	
CACGCTGTAT	CTGCAAATGA	ACAGCCTGAG	AGCCGAGGAC	ACGGCTGATG	250
T L Y	L Q M N	S L R	A E D	T A D V	
TATTACTGTG	CGAGAGACGG	TTGGGCCACG	GTGGCTTCTC	GCTTCTGACT	300
L L C	E R R	L G H G	G F S	L L T	
ACTGGNGCNC	AGGGCAACNC	TGNCINACCG	TNITCCTCAN	CCCINTACNC	350
T G A Q	G N X	X X P	X S S X	L Y X	
AAGGGCCNCC	ATINGGTCTT	TCCCCCCTGG	NNNNCCTGCT	CNATGNNNCA	400
R A X	I X S F	P P G	X P A	X X X T	
CCCTNCGACA	NCNACAN				417
L R X	X X				

00107503-110500

E20.18VK.Seq Sequence

J-JK2 Fig. 66

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
TTCGIGGCTG TGTCCTCTGG CGAGAGGNCC ACCATCAACT GCAAGTCCAG					50
F V A V S L G E R X T I N C K S S					
CCAGAGTATT TTATACAGCT CCAACAATCA AAACITCTTA GCTTGGTACC					100
Q S I L Y S S N N Q N F L A W Y Q					
AGCAGAAACC AGGACAGCCT CGAAGTTGC TCATTTACTG GGCATCTATT					150
Q K P G Q P P K L L I Y W A S I					
CGGGAATCCG GGGTCCCTGA CCGATTCACT GGCAGCGGGT CTGGGACAGA					200
R E S G V P D R F S G S G S G T D					
TTTCACTCTC ACCATCAGCA GCCTGCAGGC TGAAGATGTG GCAGTTTATT					250
F T L T I S S L Q A E D V A V Y Y					
ACTGTCAGCA GTATTATAGT ATTCGGTGCA CTTTIGGCCA GGGGACCAAG					300
C Q Q Y Y S I P C T F G Q G T K					
CTGGAGATCA AACGAACTGT GGCTGCACCA TCTGTCTTCA TCTTCCCGCC					350
L E I K R T V A A P S V F I F P P					
ATCTGATGAG CCAAGNTTGA AAATCTGGAA CTGCCTCTGT TGIGTGCCCT					400
S D E P X L K I W N C L C C V P C					
GCTTGAATAA CTTCATATCC AGAGANGGCC AAAGTCCNGT GGAAGGTGGA					450
L N N F Y P R X G Q S P V E G G					
TAC					453
Y					

00107003-110500

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
CTCACCTGCA	CTGTCCTG	TGGCTCCATC	AGTAGTTACT	NTTGGAGNTG	50
L T C T	V S G	G S I	S S Y X	W X W	
GATCCGGCAG	CCCGNAGGGA	AGGGACTGGA	GTGGATTGGG	TGTTTCTATT	100
I R Q	P X G K	G L E	W I G	C F Y Y	
ACAGNGGGAG	CACCAACTAC	AACCCCTCCC	TNAAGAGTCA	TGTCACCATA	150
X G S	T N Y	N P S L	K S H	V T I	
TCAGTAGACA	CGTCCAAGAA	CCAGTTCTAC	NIGAAGCTGA	GCINTGTGAC	200
S V D T	S K N	Q F Y	X K L S	X V T	
CGNTGCGGAC	ACGNGCGNGA	ATAACTGNGC	NAGAGATAGG	GGAGNAGTGN	250
X A D	T X X N	N X A	R D R	G X V X	
NNIGGCNINC	TACTINTGACT	ACTGAGGCCA	GNGAACCNTG	GNICACAGTA	300
W X X	T X T	T E A X	E P W	X T V	
ATCCNTAAGN	CTNNCAANCA	AANGNGNCCC	AANGNGANAC	NINNCINCN	350
I X K X	X X Q	X X P	X X X X	X X	

00197503-110500

1946-47 1947-48 1948-49 1949-50 1950-51 1951-52 1952-53 1953-54 1954-55 1955-56 1956-57 1957-58 1958-59 1959-60 1960-61 1961-62 1962-63 1963-64 1964-65 1965-66 1966-67 1967-68 1968-69 1969-70 1970-71 1971-72 1972-73 1973-74 1974-75 1975-76 1976-77 1977-78 1978-79 1979-80 1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1986-87 1987-88 1988-89 1989-90 1990-91 1991-92 1992-93 1993-94 1994-95 1995-96 1996-97 1997-98 1998-99 1999-00 2000-01 2001-02 2002-03 2003-04 2004-05 2005-06 2006-07 2007-08 2008-09 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15 2015-16 2016-17 2017-18 2018-19 2019-20 2020-21 2021-22 2022-23 2023-24 2024-25 2025-26 2026-27 2027-28 2028-29 2029-30 2030-31 2031-32 2032-33 2033-34 2034-35 2035-36 2036-37 2037-38 2038-39 2039-40 2040-41 2041-42 2042-43 2043-44 2044-45 2045-46 2046-47 2047-48 2048-49 2049-50 2050-51 2051-52 2052-53 2053-54 2054-55 2055-56 2056-57 2057-58 2058-59 2059-60 2060-61 2061-62 2062-63 2063-64 2064-65 2065-66 2066-67 2067-68 2068-69 2069-70 2070-71 2071-72 2072-73 2073-74 2074-75 2075-76 2076-77 2077-78 2078-79 2079-80 2080-81 2081-82 2082-83 2083-84 2084-85 2085-86 2086-87 2087-88 2088-89 2089-90 2090-91 2091-92 2092-93 2093-94 2094-95 2095-96 2096-97 2097-98 2098-99 2099-00 2100-01 2101-02 2102-03 2103-04 2104-05 2105-06 2106-07 2107-08 2108-09 2109-10 2110-11 2111-12 2112-13 2113-14 2114-15 2115-16 2116-17 2117-18 2118-19 2119-20 2120-21 2121-22 2122-23 2123-24 2124-25 2125-26 2126-27 2127-28 2128-29 2129-30 2130-31 2131-32 2132-33 2133-34 2134-35 2135-36 2136-37 2137-38 2138-39 2139-40 2140-41 2141-42 2142-43 2143-44 2144-45 2145-46 2146-47 2147-48 2148-49 2149-50 2150-51 2151-52 2152-53 2153-54 2154-55 2155-56 2156-57 2157-58 2158-59 2159-60 2160-61 2161-62 2162-63 2163-64 2164-65 2165-66 2166-67 2167-68 2168-69 2169-70 2170-71 2171-72 2172-73 2173-74 2174-75 2175-76 2176-77 2177-78 2178-79 2179-80 2180-81 2181-82 2182-83 2183-84 2184-85 2185-86 2186-87 2187-88 2188-89 2189-90 2190-91 2191-92 2192-93 2193-94 2194-95 2195-96 2196-97 2197-98 2198-99 2199-00 2200-01 2201-02 2202-03 2203-04 2204-05 2205-06 2206-07 2207-08 2208-09 2209-10 2210-11 2211-12 2212-13 2213-14 2214-15 2215-16 2216-17 2217-18 2218-19 2219-20 2220-21 2221-22 2222-23 2223-24 2224-25 2225-26 2226-27 2227-28 2228-29 2229-30 2230-31 2231-32 2232-33 2233-34 2234-35 2235-36 2236-37 2237-38 2238-39 2239-40 2240-41 2241-42 2242-43 2243-44 2244-45 2245-46 2246-47 2247-48 2248-49 2249-50 2250-51 2251-52 2252-53 2253-54 2254-55 2255-56 2256-57 2257-58 2258-59 2259-60 2260-61 2261-62 2262-63 2263-64 2264-65 2265-66 2266-67 2267-68 2268-69 2269-70 2270-71 2271-72 2272-73 2273-74 2274-75 2275-76 2276-77 2277-78 2278-79 2279-80 2280-81 2281-82 2282-83 2283-84 2284-85 2285-86 2286-87 2287-88 2288-89 2289-90 2290-91 2291-92 2292-93 2293-94 2294-95 2295-96 2296-97 2297-98 2298-99 2299-00 2300-01 2301-02 2302-03 2303-04 2304-05 2305-06 2306-07 2307-08 2308-09 2309-10 2310-11 2311-12 2312-13 2313-14 2314-15 2315-16 2316-17 2317-18 2318-19 2319-20 2320-21 2321-22 2322-23 2323-24 2324-25 2325-26 2326-27 2327-28 2328-29 2329-30 2330-31 2331-32 2332-33 2333-34 2334-35 2335-36 2336-37 2337-38 2338-39 2339-40 2340-41 2341-42 2342-43 2343-44 2344-45 2345-46 2346-47 2347-48 2348-49 2349-50 2350-51 2351-52 2352-53 2353-54 2354-55 2355-56 2356-57 2357-58 2358-59 2359-60 2360-61 2361-62 2362-63 2363-64 2364-65 2365-66 2366-67 2367-68 2368-69 2369-70 2370-71 2371-72 2372-73 2373-74 2374-75 2375-76 2376-77 2377-78 2378-79 2379-80 2380-81 2381-82 2382-83 2383-84 2384-85 2385-86 2386-87 2387-88 2388-89 2389-90 2390-91 2391-92 2392-93 2393-94 2394-95 2395-96 2396-97 2397-98 2398-99 2399-00 2400-01 2401-02 2402-03 2403-04 2404-05 2405-06 2406-07 2407-08 2408-09 2409-10 2410-11 2411-12 2412-13 2413-14 2414-15 2415-16 2416-17 2417-18 2418-19 2419-20 2420-21 2421-22 2422-23 2423-24 2424-25 2425-26 2426-27 2427-28 2428-29 2429-30 2430-31 2431-32 2432-33 2433-34 2434-35 2435-36 2436-37 2437-38 2438-39 2439-40 2440-41 2441-42 2442-43 2443-44 2444-45 2445-46 2446-47 2447-48 2448-49 2449-50 2450-51 2451-52 2452-53 2453-54 2454-55 2455-56 2456-57 245

V- DP6S
D DIR3
J- JH6b

69
Fig. 69

THE UNIVERSITY OF CHICAGO

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
AAGCCTTTTC	AGACCNIGCC	CTTCACCTGC	ACTGICTCTG	GTGGCTCCAT	50
K P F Q	T X P	F T C	T V S G	G S I	
CAGCAGTGGT	GGTTACTACT	GGAGCTGGAT	CGCCAGCAC	CCAGGGAAGG	100
S S G	G Y Y W	S W I	R Q H	P G K G	
GCCTGGAGTG	GATTGGGTAC	ATCTATAACA	GTGGGAGCAC	CTACTACAAC	150
L E W	I G Y	I Y N S	G S T	Y Y N	
CGTCCCTCC	AGAGTCGAGT	TACCATATCA	GTAGACACGT	CTAAGAACCA	200
P S L Q	S R V	T I S	V D T S	K N Q	
GTCTCCCTG	AAGCTGAGCT	CTGTGACTGC	CGCGGACACG	GCCGIGTATT	250
F S L	K L S S	V T A	A D T	A V Y Y	
ACTGTGCGGG	<u>TCAGAAATGG</u>	TCCTACTACT	ACTACTACGG	TATGGACGTC	300
C A G	Q K W	S Y Y Y	Y Y G	M D V	
TGGGGCCAAG	GGACCACGGT	CACCGTCTCC	TNAGCCTCCA	CCAANGGCCC	350
W G Q G	T T V	T V S	X A S T	X G P	
ATCGGTCTTC	CCCCTGGCGC	CCTGNICTAG	GAGCACCTCC	CANAGCACAG	400
S V F	P L A P	X S R	S T S	X S T D	
ACGGATNCTG	GGCCTGCCTG	NATCAATGGA	CTACTTTCCC	CGAACCGGTT	450
G X W	A C L	X Q W T	T F P	E P V	
GNNIGTGNNN	CCTGGNAACT	N			471
X C X X	W X L				

Amino Acid Sequences and Structure of Human Heavy Chain Derived from EGFR-Specific Hybridomas

Human $\gamma 2$	CDR1	CDR2	CDR3	ASTKGPSVFPPLAPCSRSTST
4-31	VSGGSISGGYYWSWIRQHPGKGLEWIGYIYSGSTNYNPSLKS	RVTVISVDTSKNQFSLKLSVTAADTAVYYCAR	STVNPWG WFDP	WGQGTLLVTVSS
E1.1	N-D	DC	F-T	WGQGTLLVTVSS
E2.4	N-D	S-N-F	L-C	WGQGTLLVTVSS
E2.5	D-T	N	SM-I-E	WGQGTLLVTVSS
E6.2	N-DF	N	M-I-P	WGQGTLLVTVSS
E6.4	NN-D	H-I	T-N	WGQGTLLVTVSS
E20.21	C	N-Q	GKWSYYYYYGM DV	WGQGTLLVTVSS
4-61	VSGGSVSGSYTWSWIRQPPGKGLEWIGYIYSGSTNYNPSLKS	RVTVISVDTSKNQFSLKLSVTAADTAVYYCAR	DFLTGSF FDY	WGQGTLLVTVSS
E2.11	D	HL-N	L	WGQGTLLVTVSS
E6.3	Y-D	N	DSILGA TNY	WGQGTLLVTVSS
E7.6.3	D-T-S	H-N	L-I-T	WGQGTLLVTVSS
			I-V-DRVTGA FDI	WGQGTLLVTVSS

Figure 71

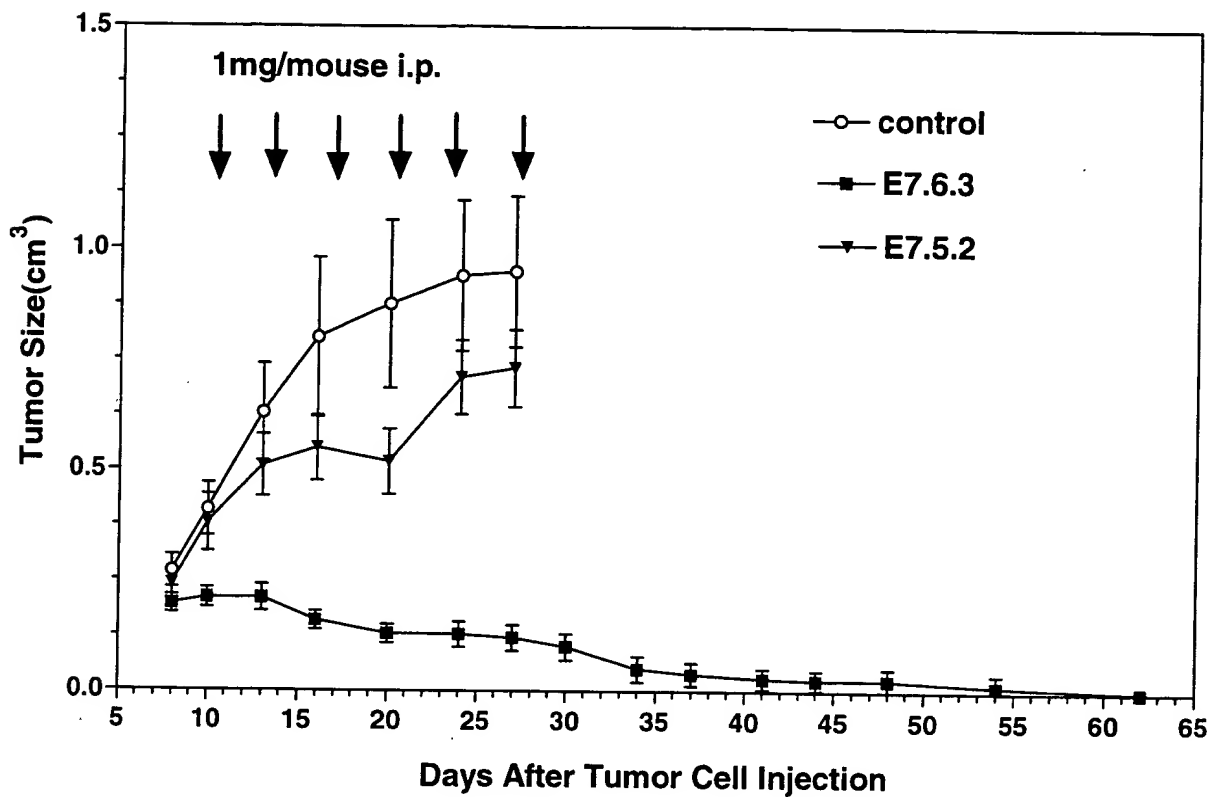
1000
900
800
700
600
500
400
300
200
100
0

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
CTGTCCTGCAT	CTGTAGGAGA	CAGAGTCATA	ATCACTTGCC	GGGCAAGTCA	50
L S A S	V G D	R V I	I T C R	A S Q	
AAACATCACC	GACCATTTAA	ATTGGTATCA	GCAGATAGCA	GGAAAAGCCC	100
N I T	D H L N	W Y Q	Q I A	G K A P	
CTAGGCCCCCT	GATATACACT	GCATCCAGTT	TGCAAGGTGG	GGTCCCATCA	150
R P L	I Y T	A S S L	Q G G	V P S	
AGGTTTCAGTG	GCAGTGGATC	TGGGACAGAT	TTCACCTCTCA	CCATCAGCAG	200
R F S G	S G S	G T D	F T L T	I S S	
TCTGCAACCT	GAAGATTTTT	CAACTTACTA	CTGTCAACAG	AGTTACAGTA	250
L Q P	E D F S	T Y Y	C Q Q	S Y S T	
CCCCGTGCAG	TTTTGGCCAG	GGGACCAAGC	TGGAGATCAA	ACGAACTGTG	300
P C S	F G Q	G T K L	E I K	R T V	
GCTGCACCAT	CTGTCTTCAT	CTTCCCGCCA	TCTGATGAGC	AGTTGAAATC	350
A A P S	V F I	F P P	S D E Q	L K S	
TGGAACCTGCC	TCTGTTGTGT	GCCTGCTGAA	TAACTTCTAT	CCCA	394
G T A	S V V C	L L N	N F Y	P	

10	20	30	40	50	
1234567890	1234567890	1234567890	1234567890	1234567890	
GTGAAGGICT	CCTGCAAGGC	TTCTGGATAC	ACCTTCAGCG	GCTACTATAT	50
V K V S	C K A	S G Y	T F S G	Y Y M	
GCACTGGGTG	CGACAGGCC	CTGGACAAGG	GCTTGAGTGG	ATGGGATCGA	100
H W V	R Q A P	G Q G	L E W	M G S I	
TCCACCCTAA	CAGTGGTGGC	ANAACTTTG	CACAGAAGTT	TCAGGCCAGG	150
H P N	S G G	X N F A	Q K F	Q G R	
GTCACCATGA	CCAGGGACAC	GTCCATCAAC	ACAGCCTACT	TGGAGCTGAG	200
V T M T	R D T	S I N	T A Y L	E L S	
CAGGCTGAGA	TCTGACGACA	CGGCCGIGTA	TTACTGTGCG	AGAGATAAAA	250
R L R	S D D T	A V Y	Y C A	R D K N	
ACTACGGTGA	CTACGICTTT	GACTATTGGG	GCCAGGGAAC	CCTGGTCACC	300
Y G D	Y V F	D Y W G	Q G T	L V T	
GTCTCTCAG					310
V S S					

00107603-1050000

74
Figure 1 Effect of E7.6.3 or E7.5.2 on human epidermoid carcinoma A431 growth in nude mice



75
Figure 8. Effect of E7.6.3 on human pancreatic carcinoma HPAC growth in nude mice

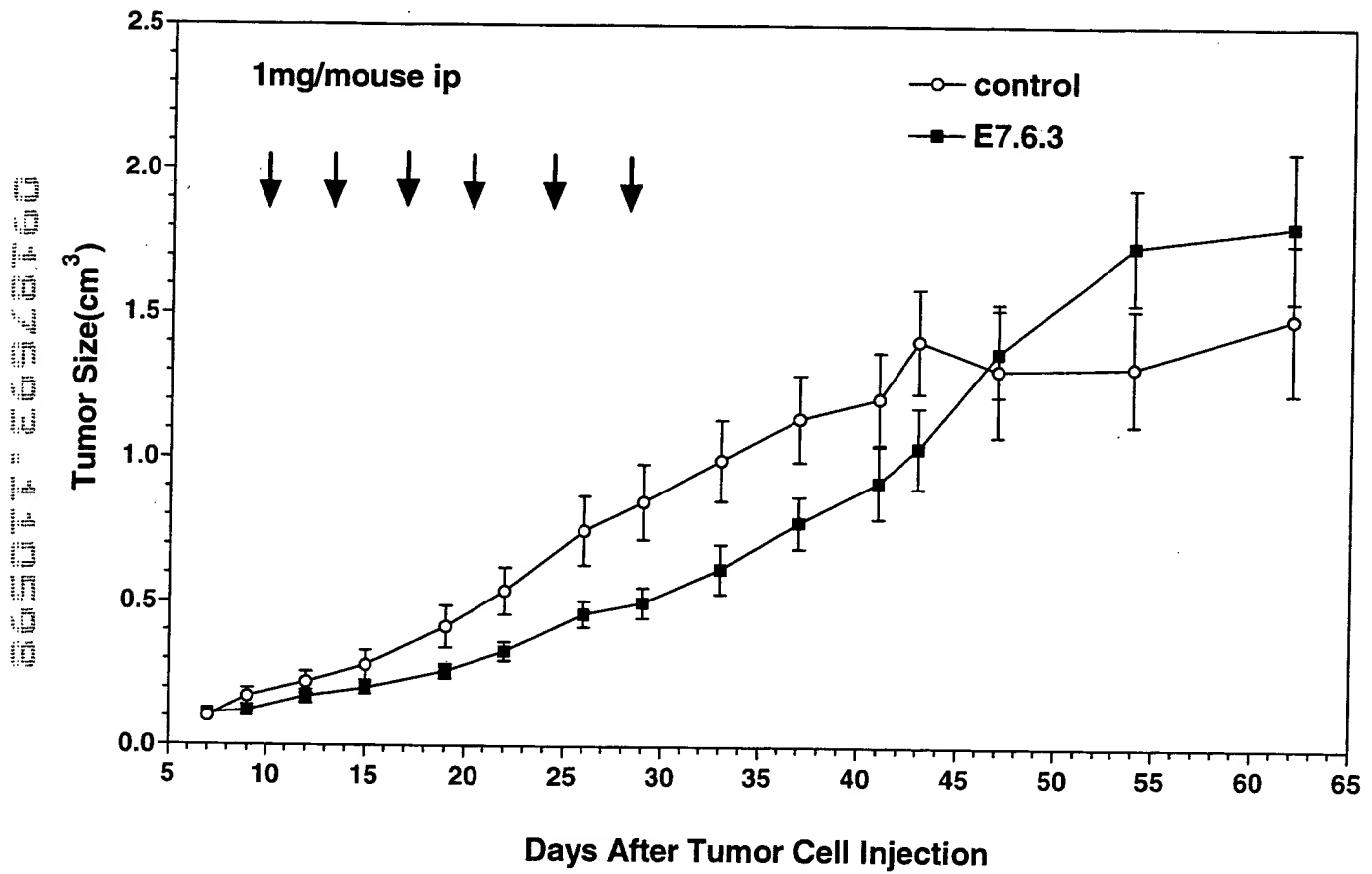


Figure 26 Effect of E7.6.3 on human pancreatic carcinoma BxPC-3 growth in nude mice

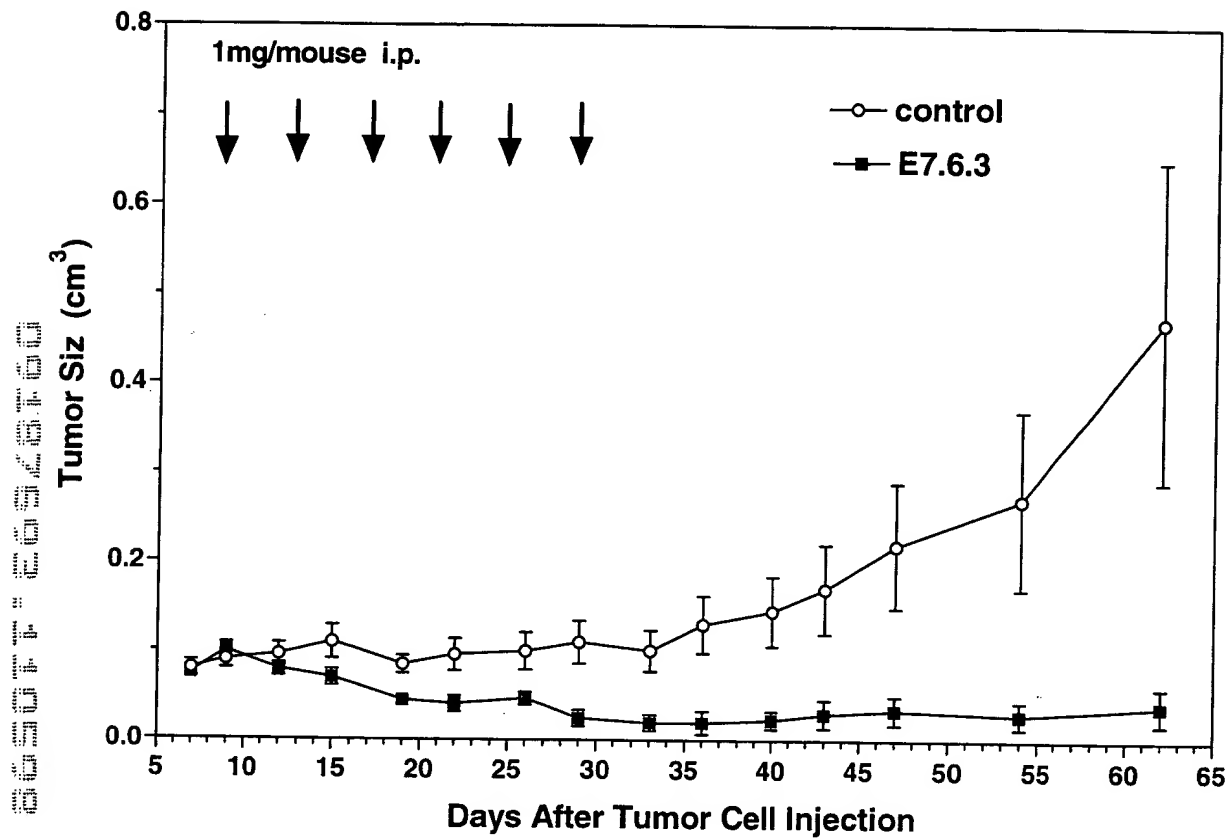
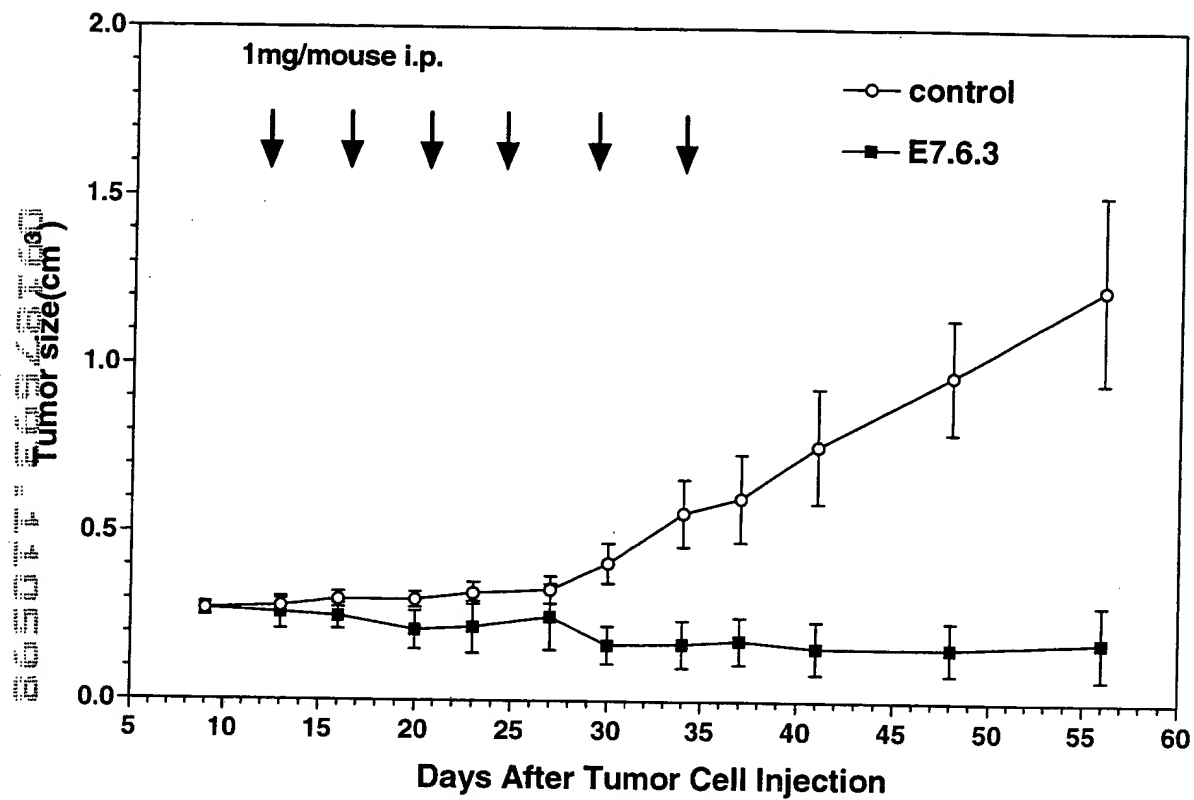


Figure 1 Effect of E7.6.3 on HS766T Pancreatic tumor growth in nude mice



78
Figure 2. Effect of E7.6.3 on SK-RC-29 human kidney carcinoma growth in nude mice

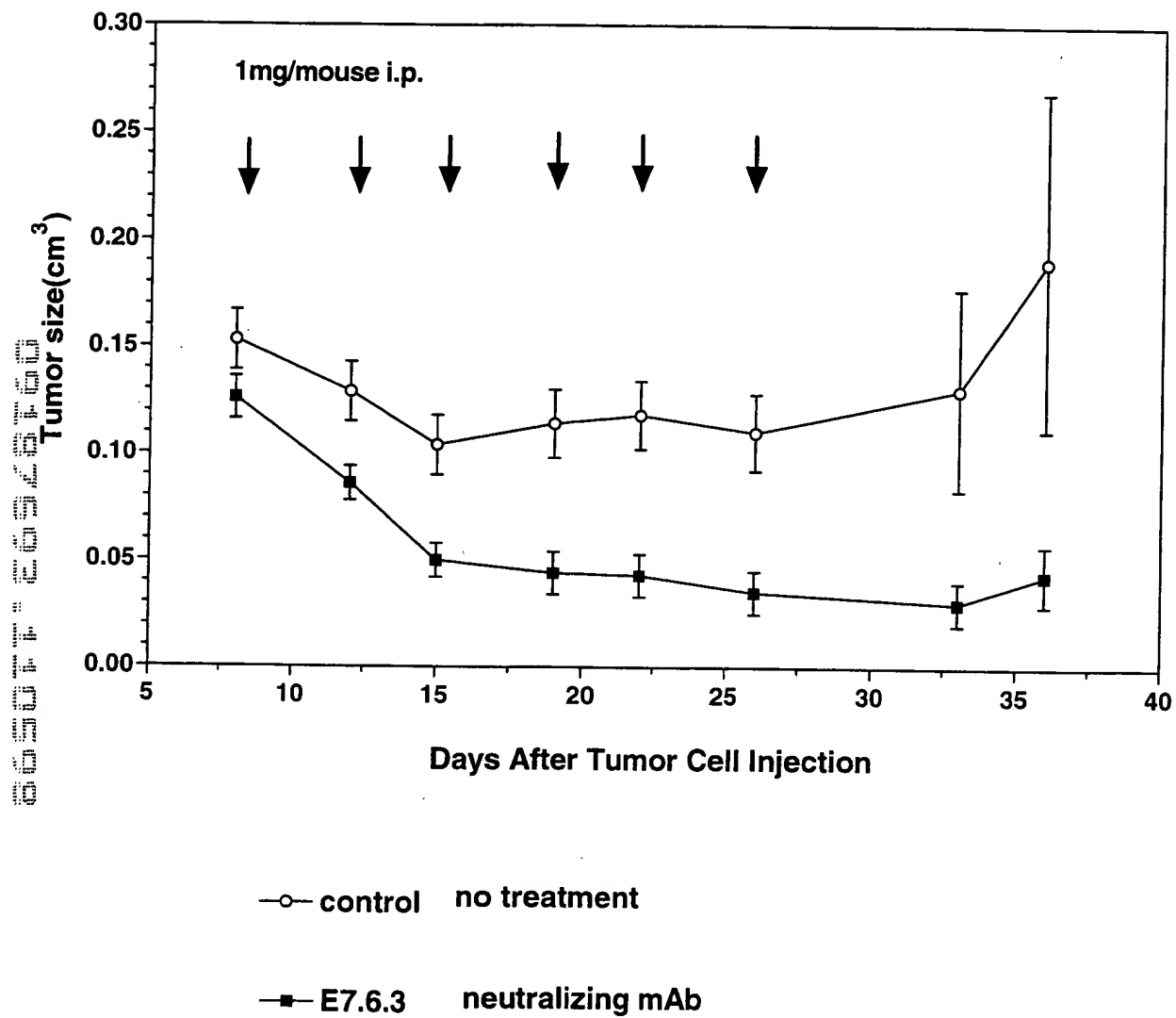


Figure ⁷⁹~~78~~ Effect of E7.6.3 on human colon carcinoma SW707 (EGFr⁻) growth in nude mice

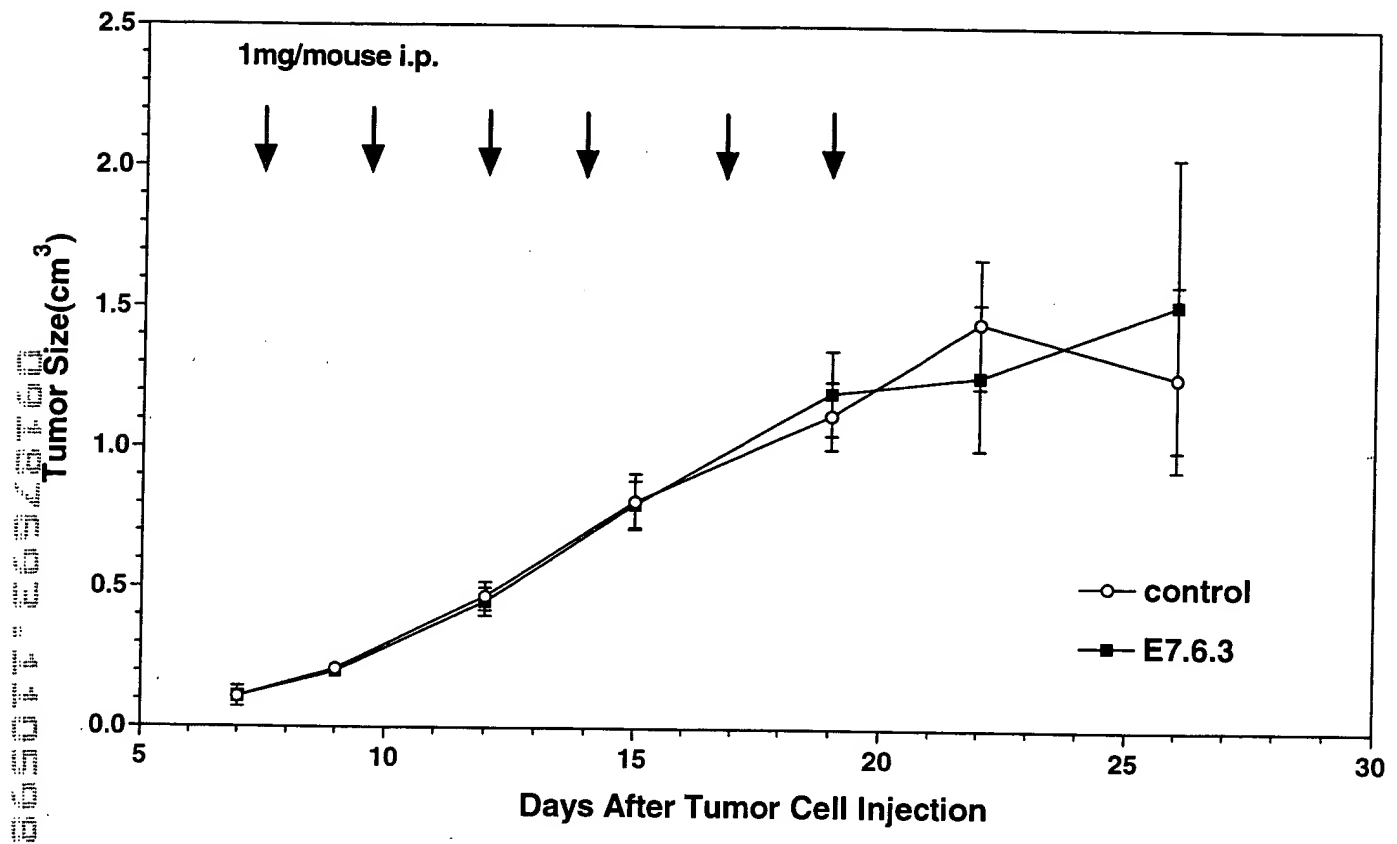
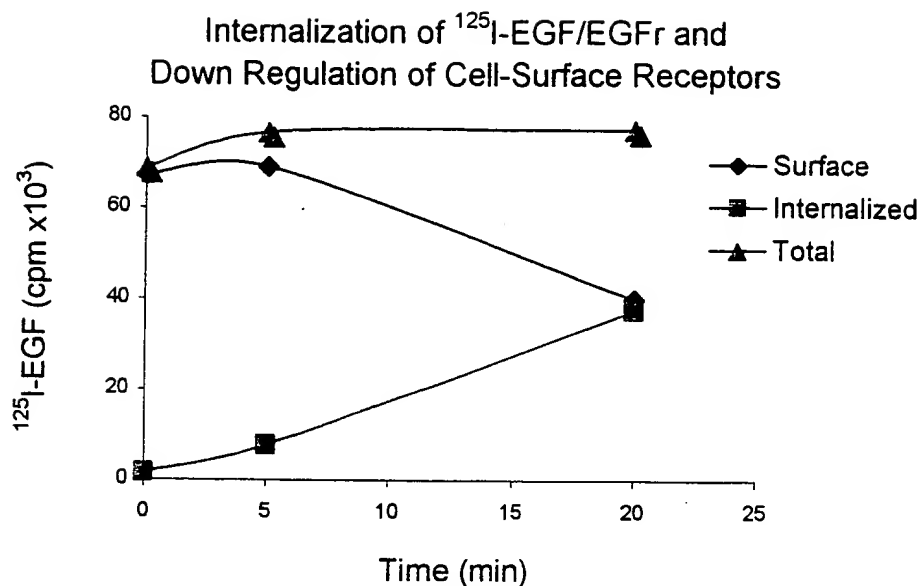


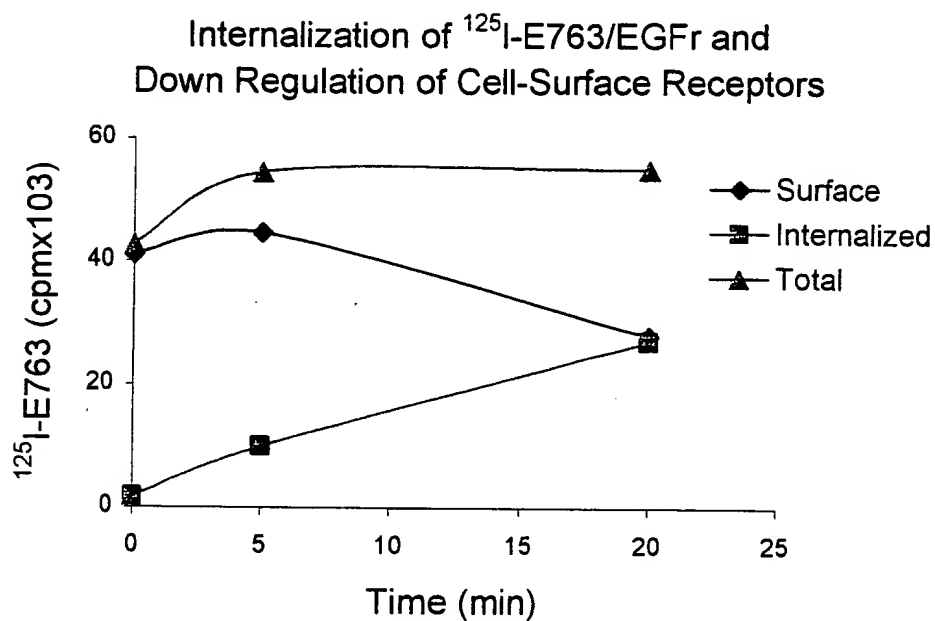
Figure 80



A

^{125}I -EGF

Time (min)	Surface	Internalize	Total	% internalized
0	67.153	1.515	68.668	2.2
5	68.997	7.649	76.646	10
20	39.986	37.406	77.392	48



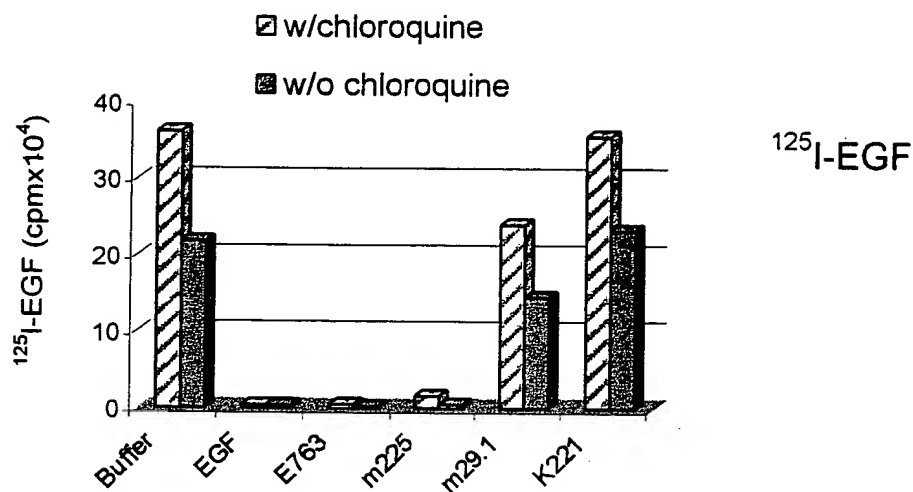
B

^{125}I -E763

Time (min)	Surface	Internalize	Total	% internalized
0	41.051	1.684	42.735	3.9
5	44.567	9.876	54.443	18
20	27.969	26.998	54.967	49

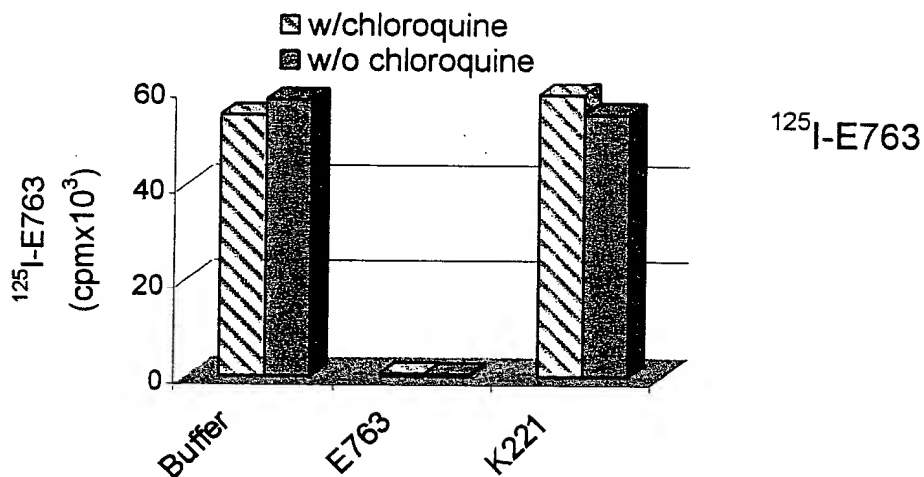
Figure 81

Degradation of ^{125}I -EGF or ^{125}I -E763 after binding to EGFr on A431 cell



w/ or w/o chloroquine (100 μM)

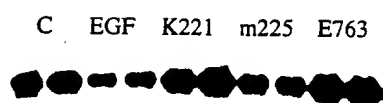
cpm x 10 ⁴		w/chloroq	w/o chloroquine	% degradation	% competition
	Buffer	36.0898	21.8277	40	0
	EGF	0.3684	0.3776		98
	E763	0.481	0.2132		99
	m225	1.5468	0.4882		98
	m29.1	23.9704	14.459		34
	K221	35.5084	23.2694	34	1.6



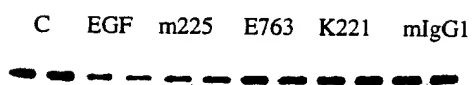
w/ or w/o chloroquine (100 μM)

cpm x 10 ⁴		w/chloroq	w/o chloroquine	% degradation	% competition
	Buffer	54.608	57.824	0	0
	E763	0.536	0.441		99
	K221	58.956	54.83	7	5

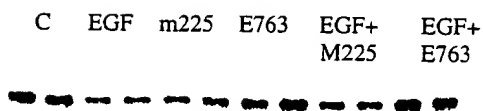
Effects of E763 and m225 on EGFr degradation



A



B



C

Effects of E763 and m225 on EGFr threonine phosphorylation

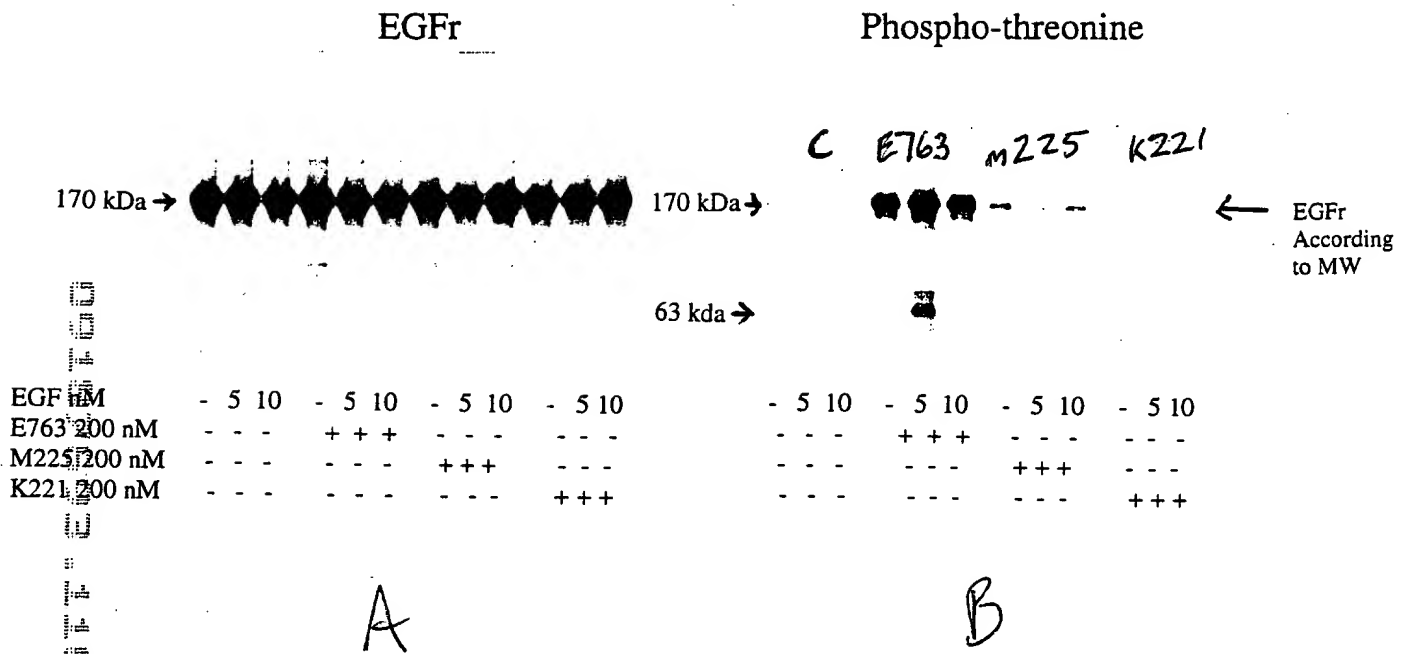
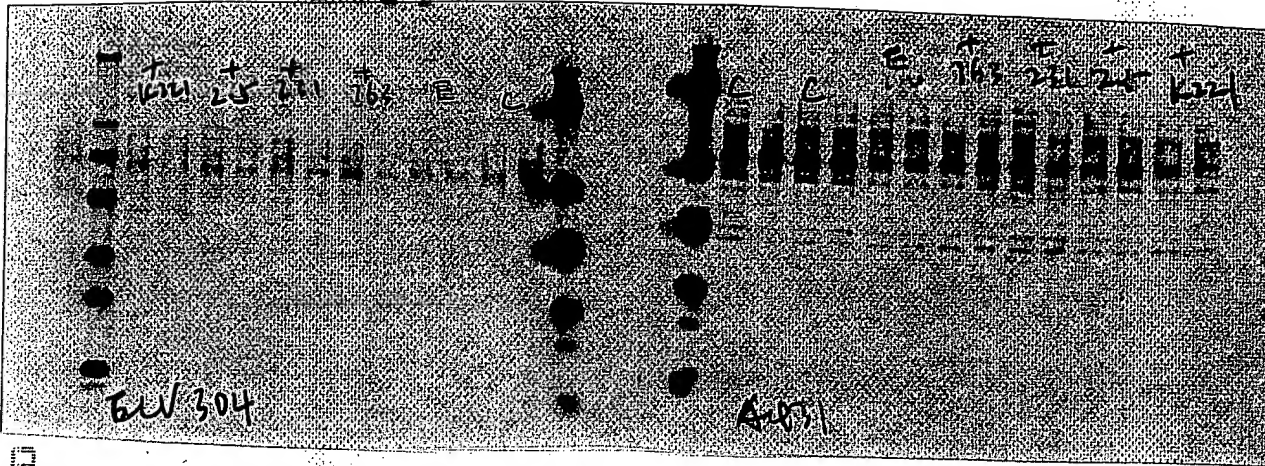


Figure 84

tyr. phos.
protocol
thr-phos
detect

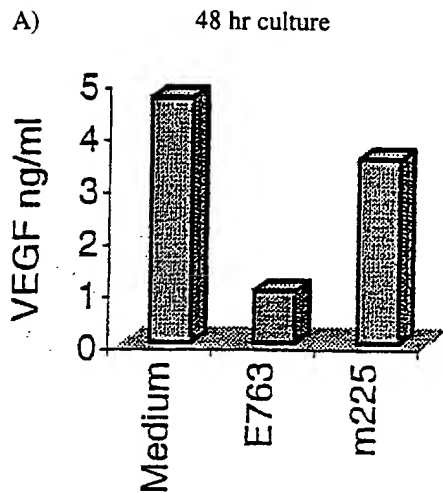


00107500 40500

E763 on VEGF secretion

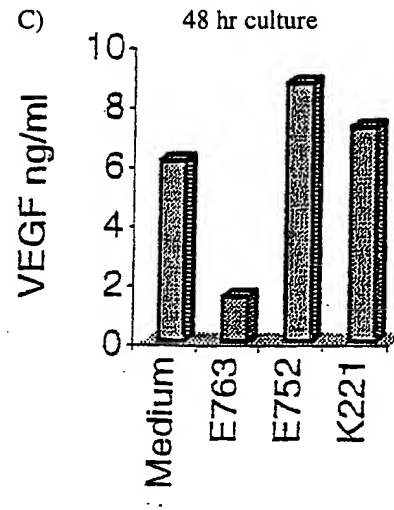
Figure 85

Effects of E763 and m225 on VEGF secretion in cultured A431 cells



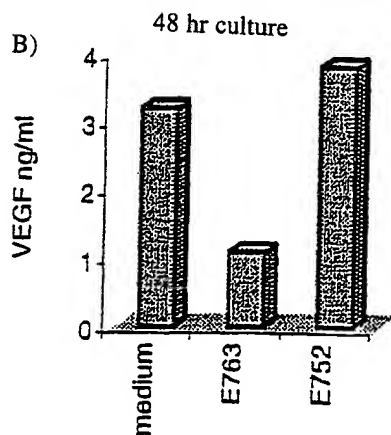
A

Effects of E763 and E752 on VEGF secretion in cultured A431 cells



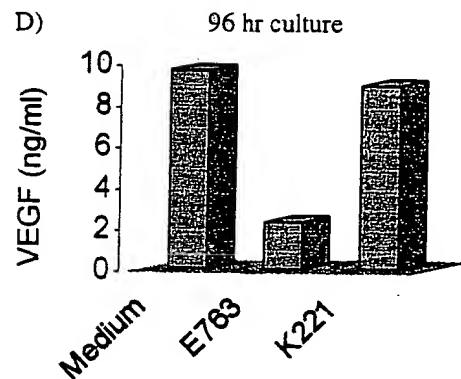
B

Effects of E763 and E752 on VEGF secretion in cultured A431 cells (24 hr)



C

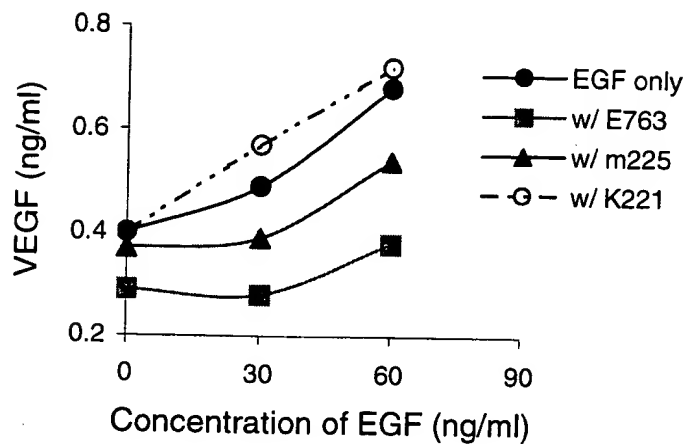
Effect of E763 on VEGF secretion in cultured A431 cells



D

Figure 8b

Effects of E763 and m225 on VEGF secretion in cultured endothelial cells



11/5/98 VEGF in endothelial cells (ECV304) (ATCC ; CRL-1998)

	VEGF ng/ml	no serum		
	0	30	60	
EGF only	0.4	0.49	0.68	
w/ E763	0.29	0.28	0.38	
w/ m225	0.37	0.39	0.54	
w/ K221	0.4	0.57	0.72	

605074: 605074.60